



Inventor: GUHEEN ET AL.
Docket No.: 8567.108US01
Title: WEB-BASED ARCHITECTURE SALES TOOL (AS AMENDED)
Serial No.: 09/322,073
Sheet 1 of 17

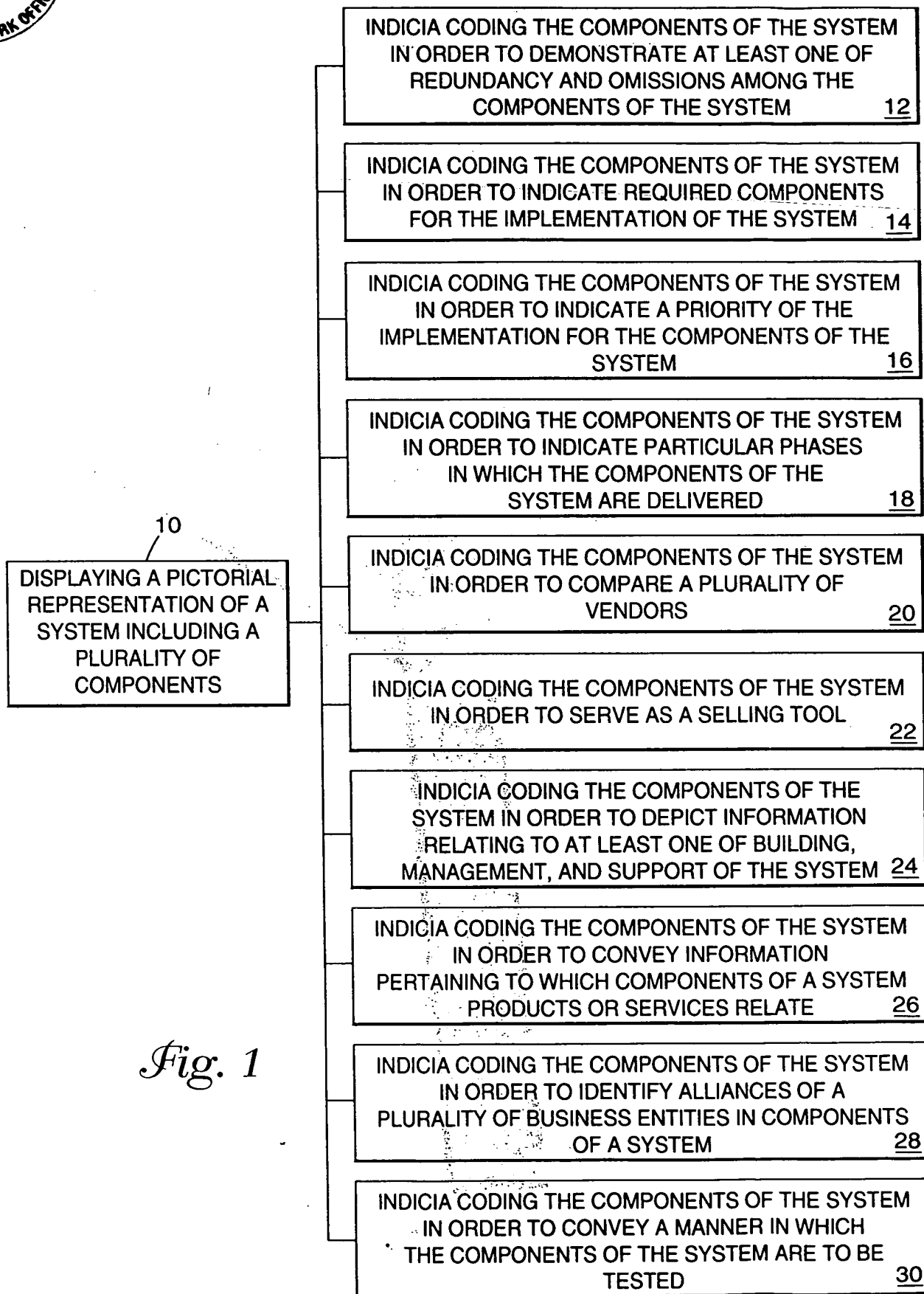


Fig. 1

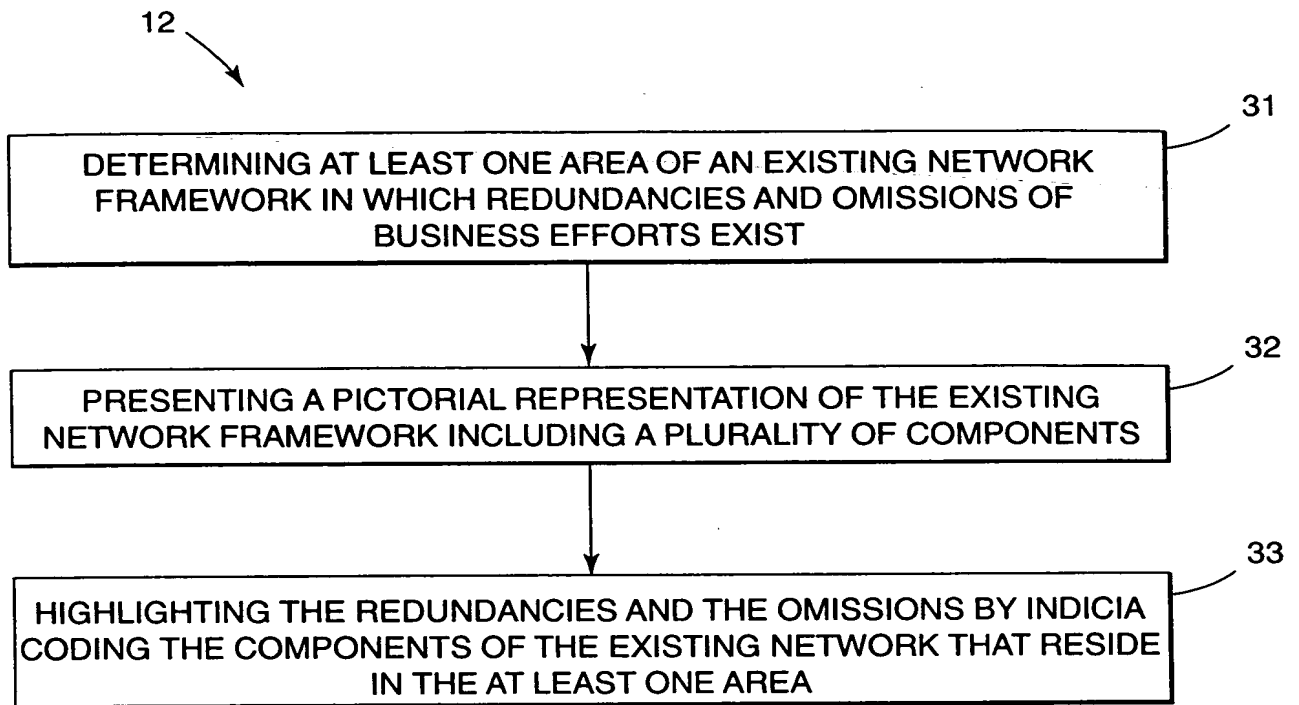


Fig. 2

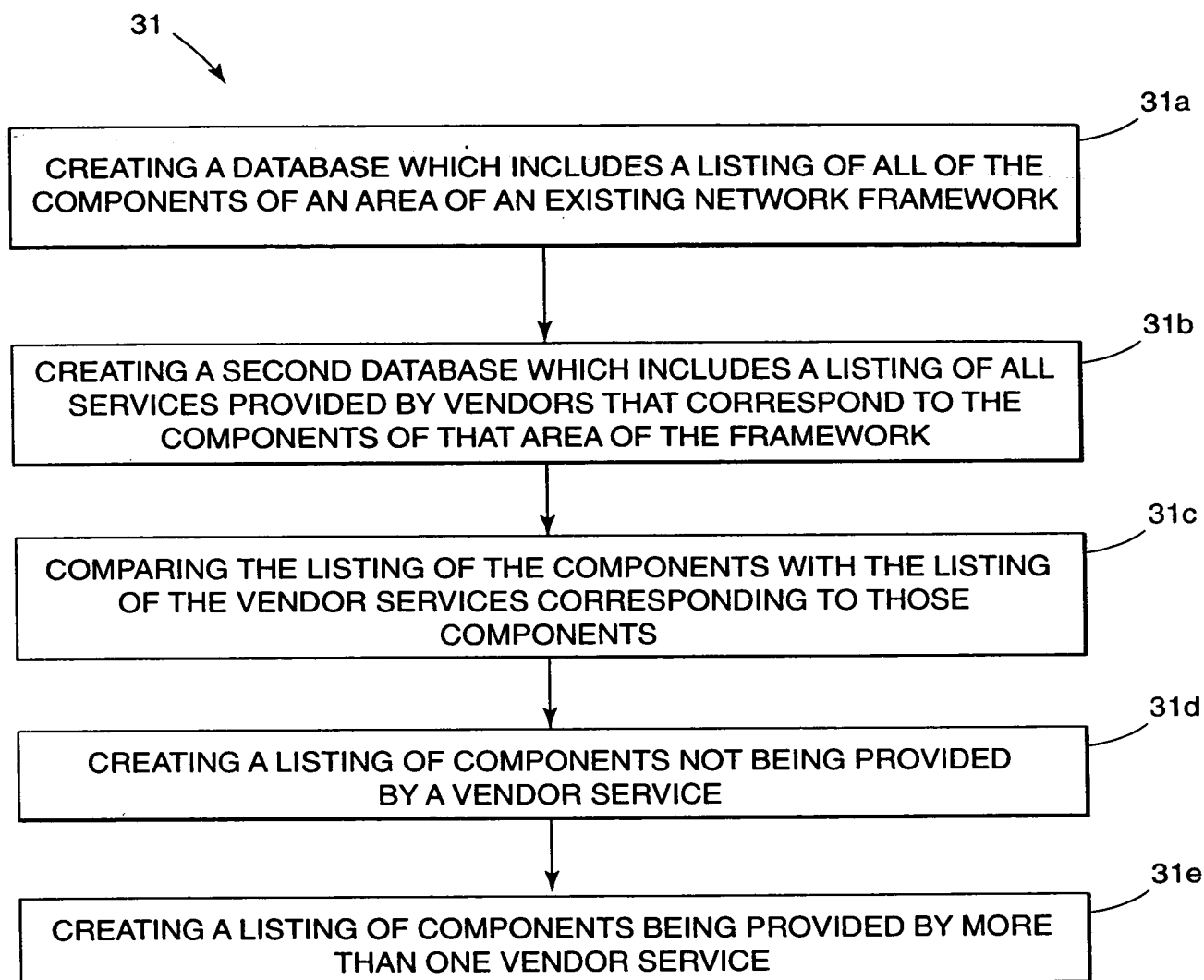


Fig. 3



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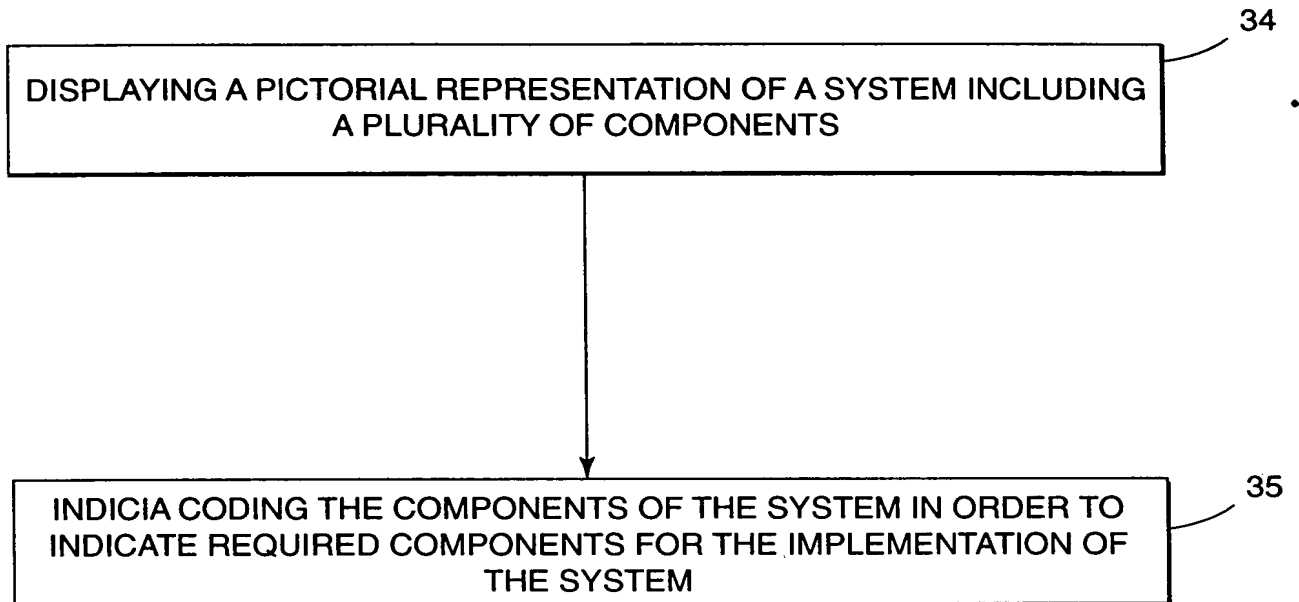


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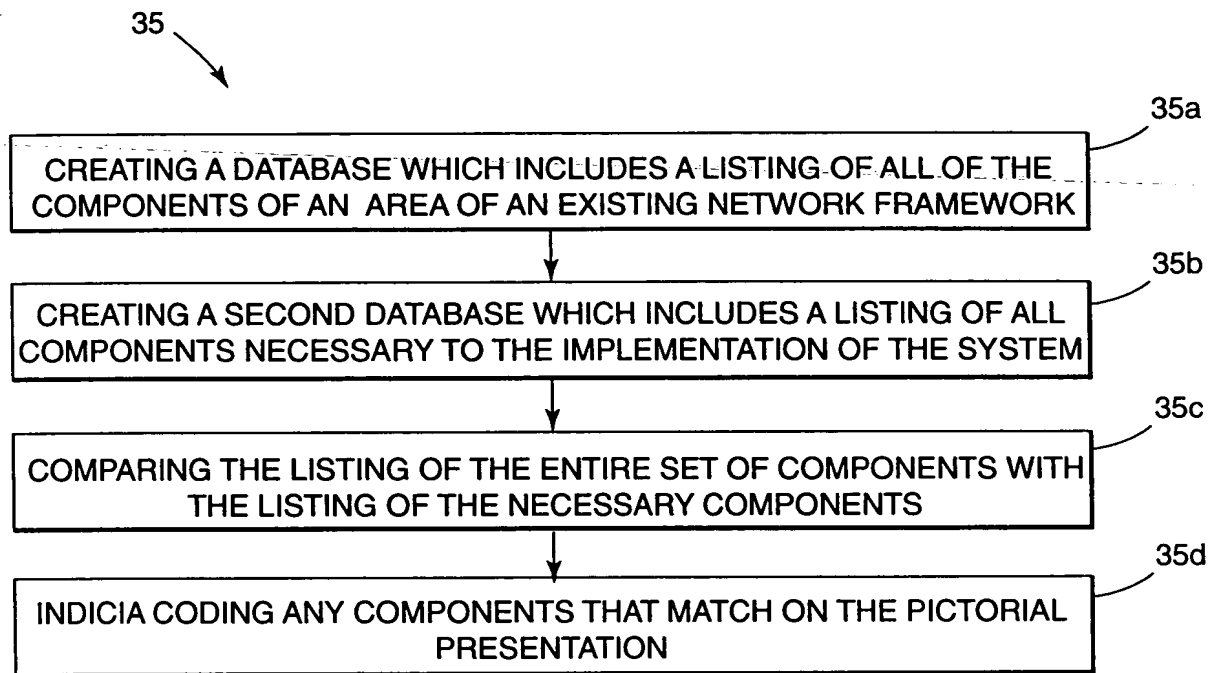


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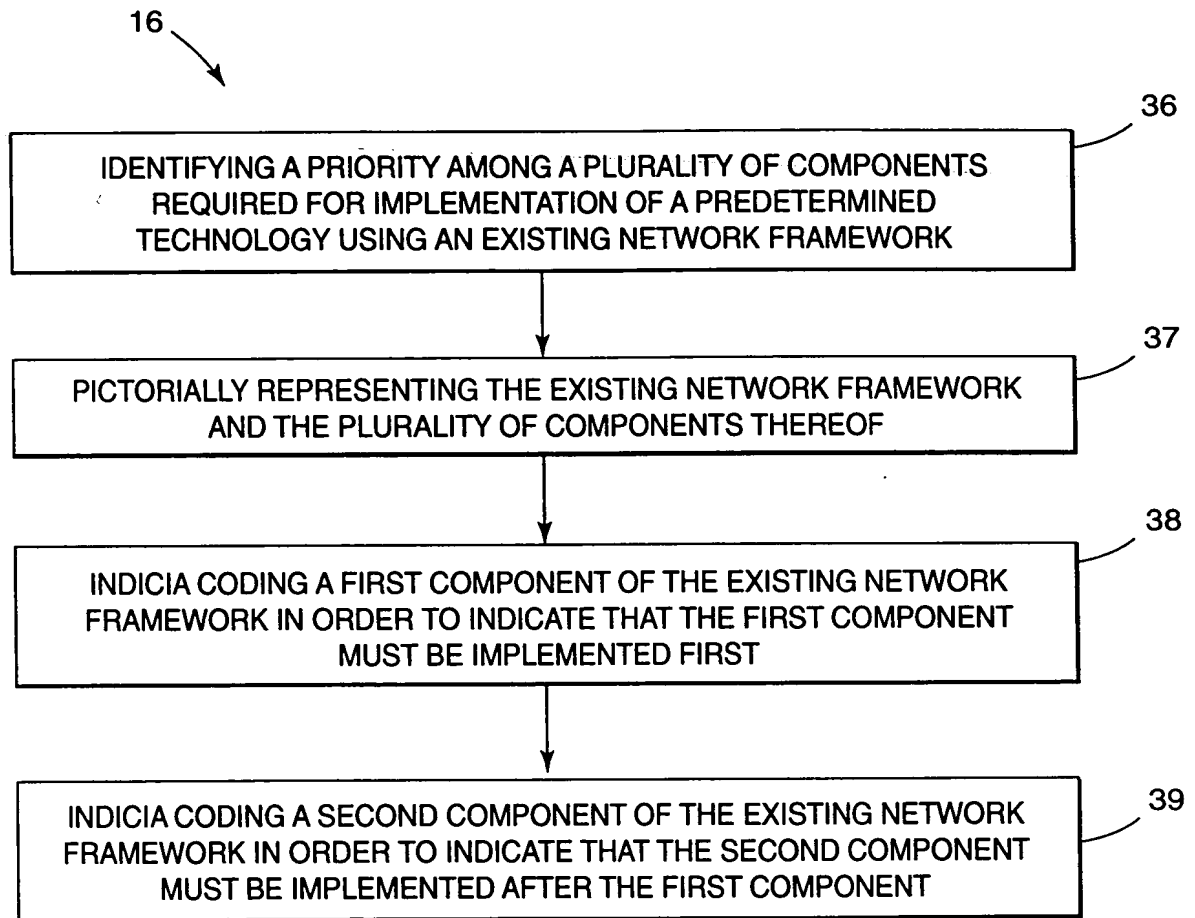


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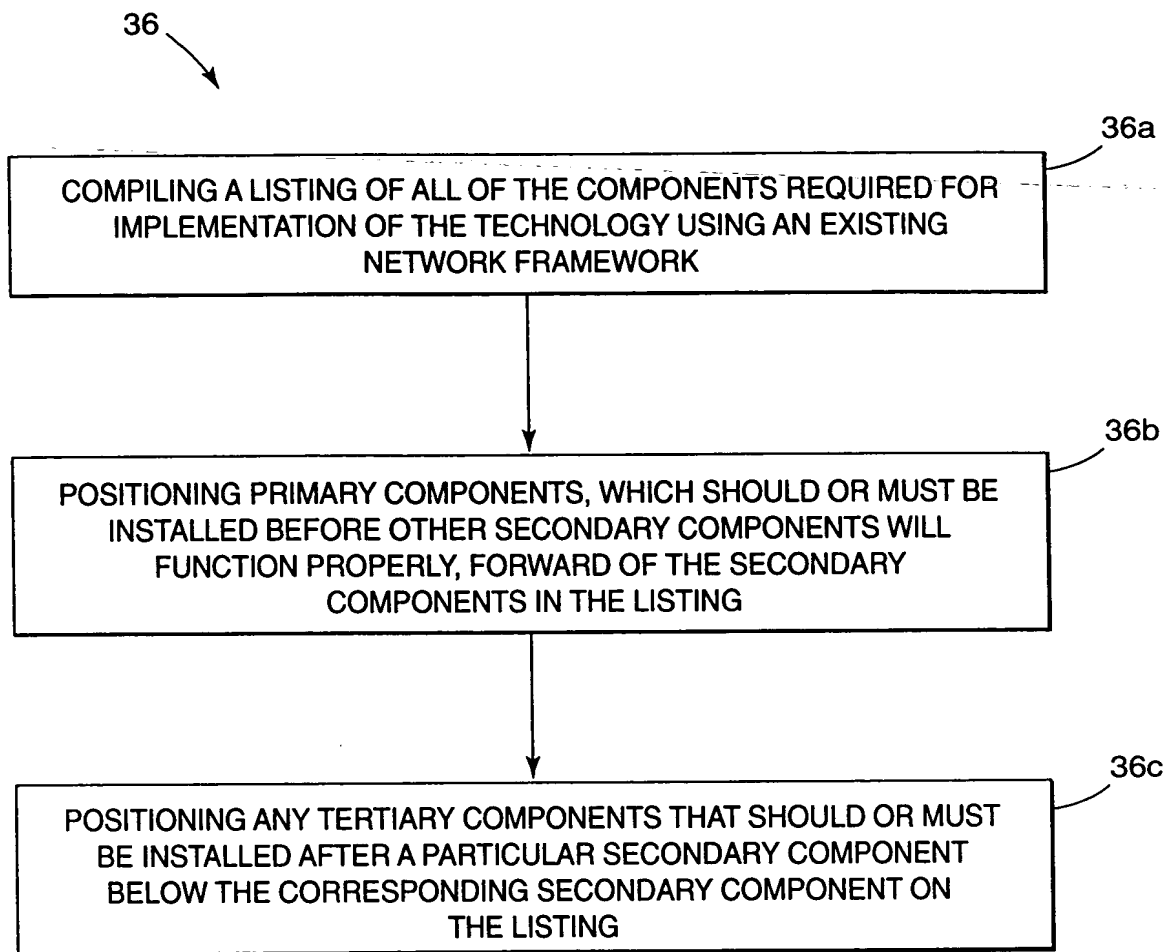


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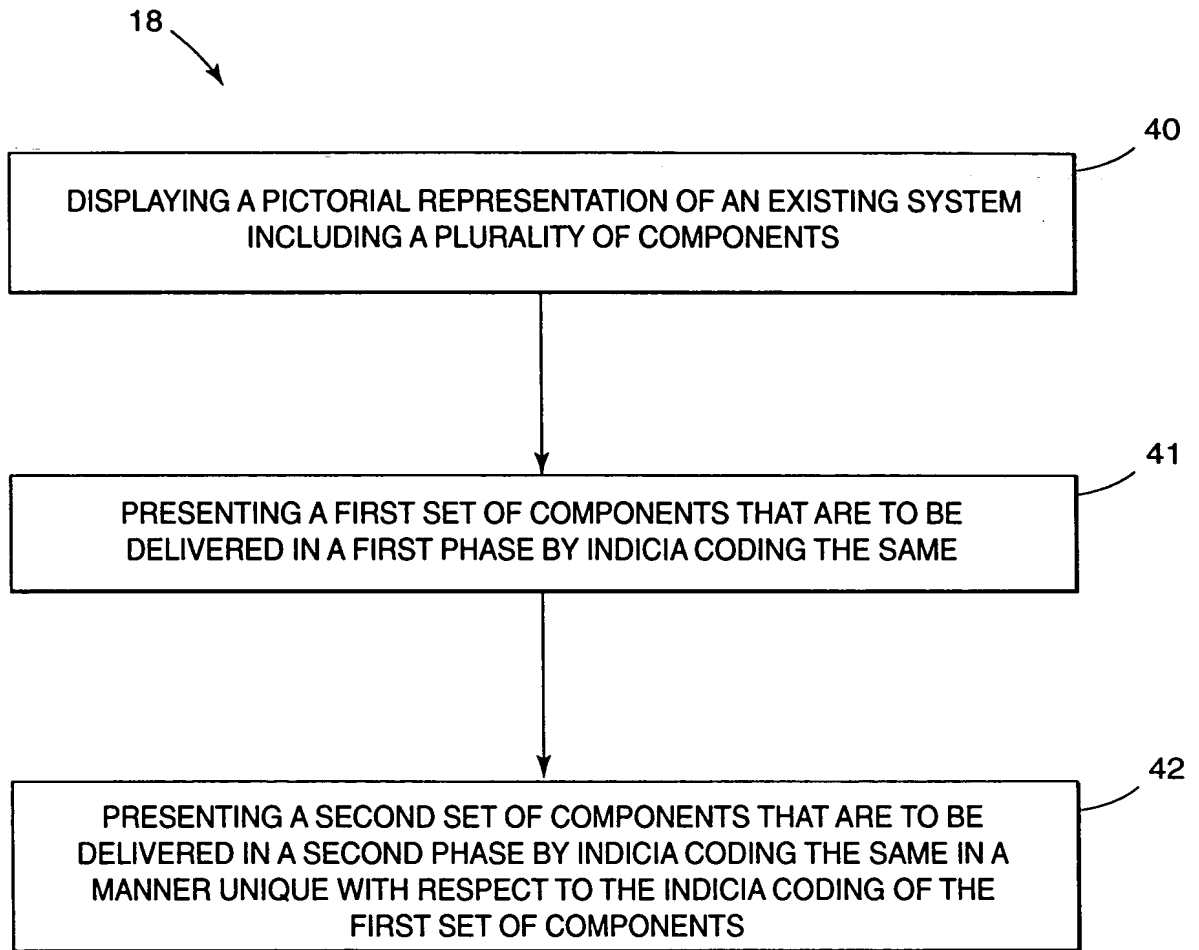


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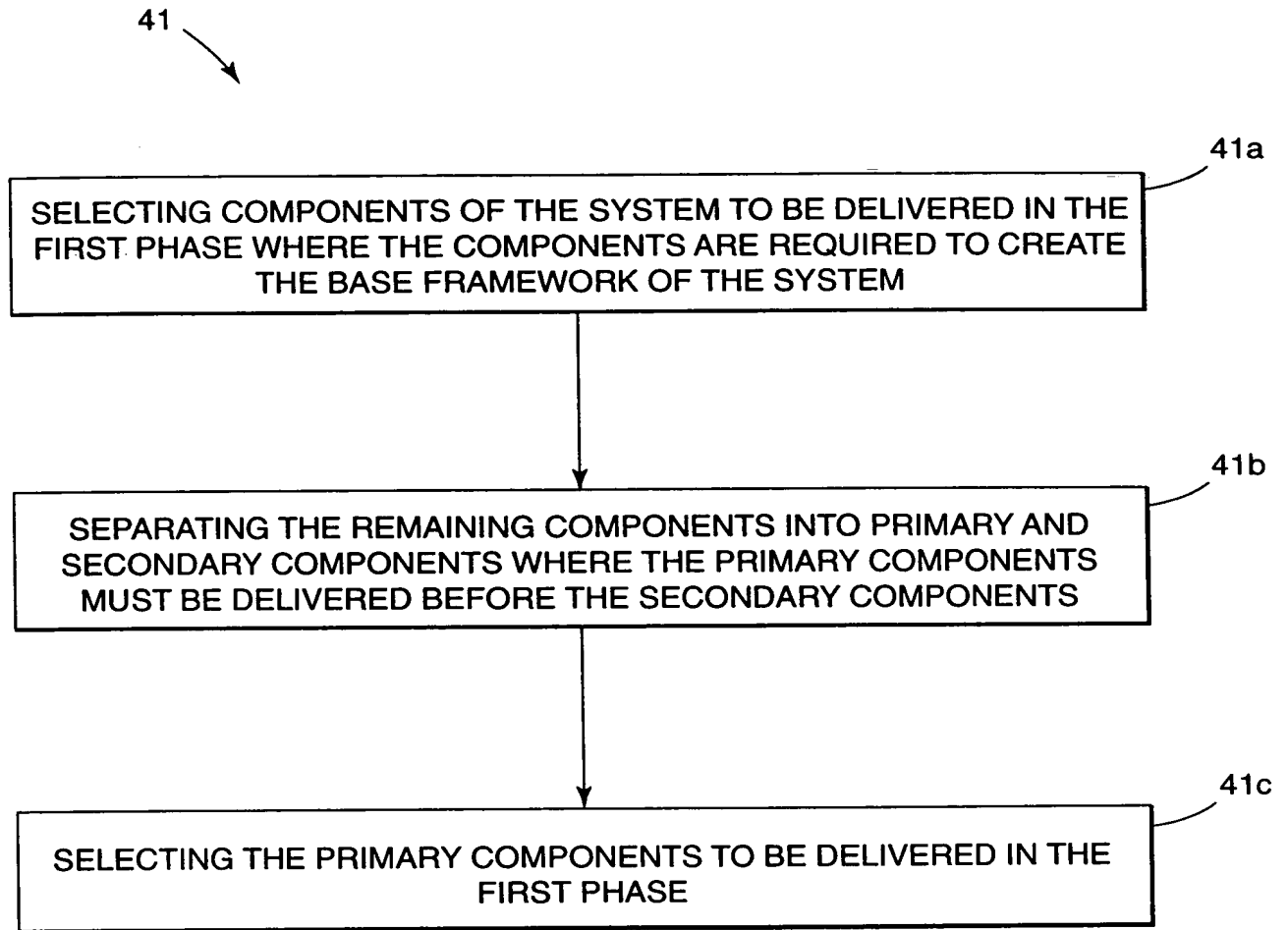


Fig. 9

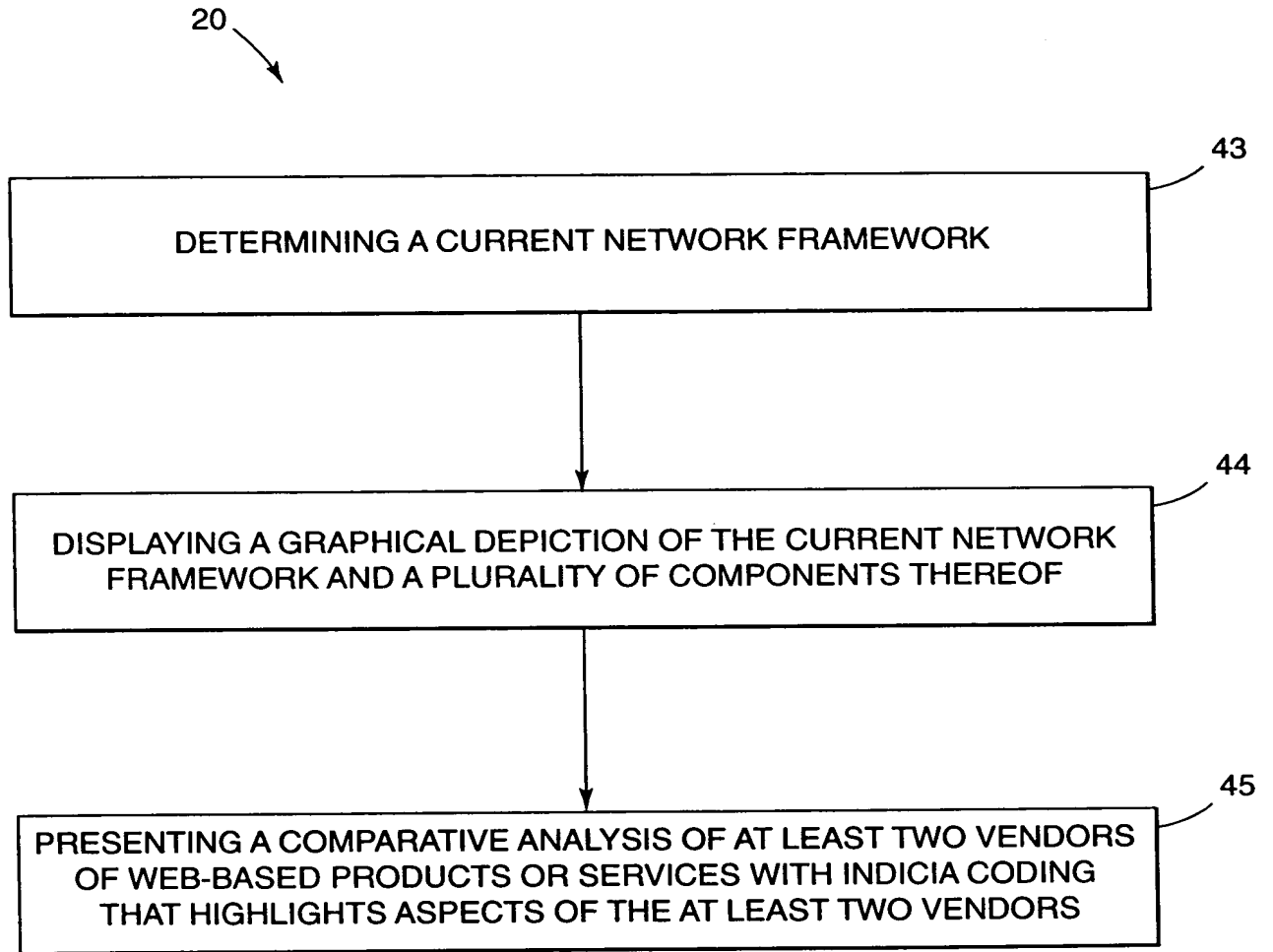


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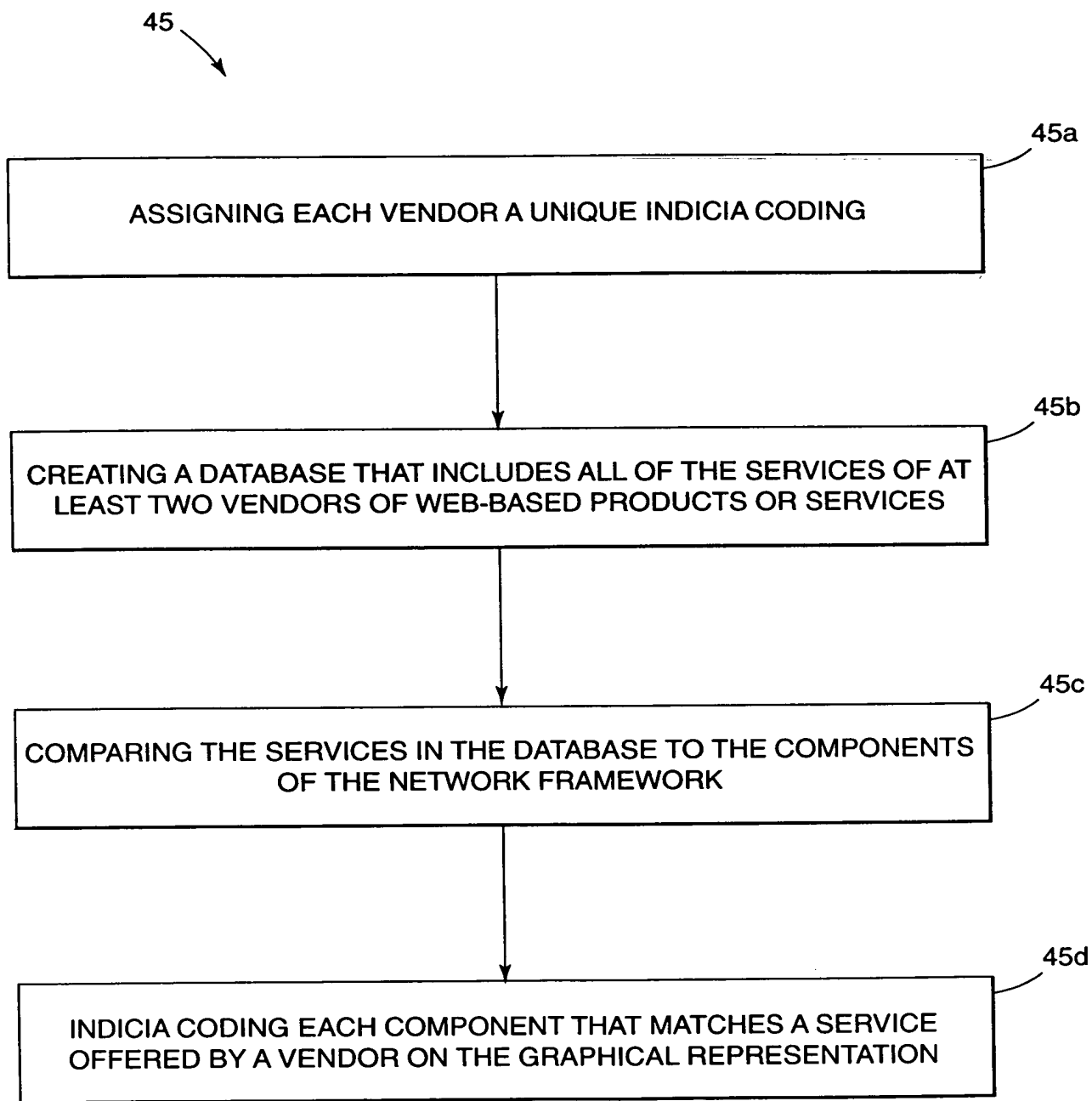


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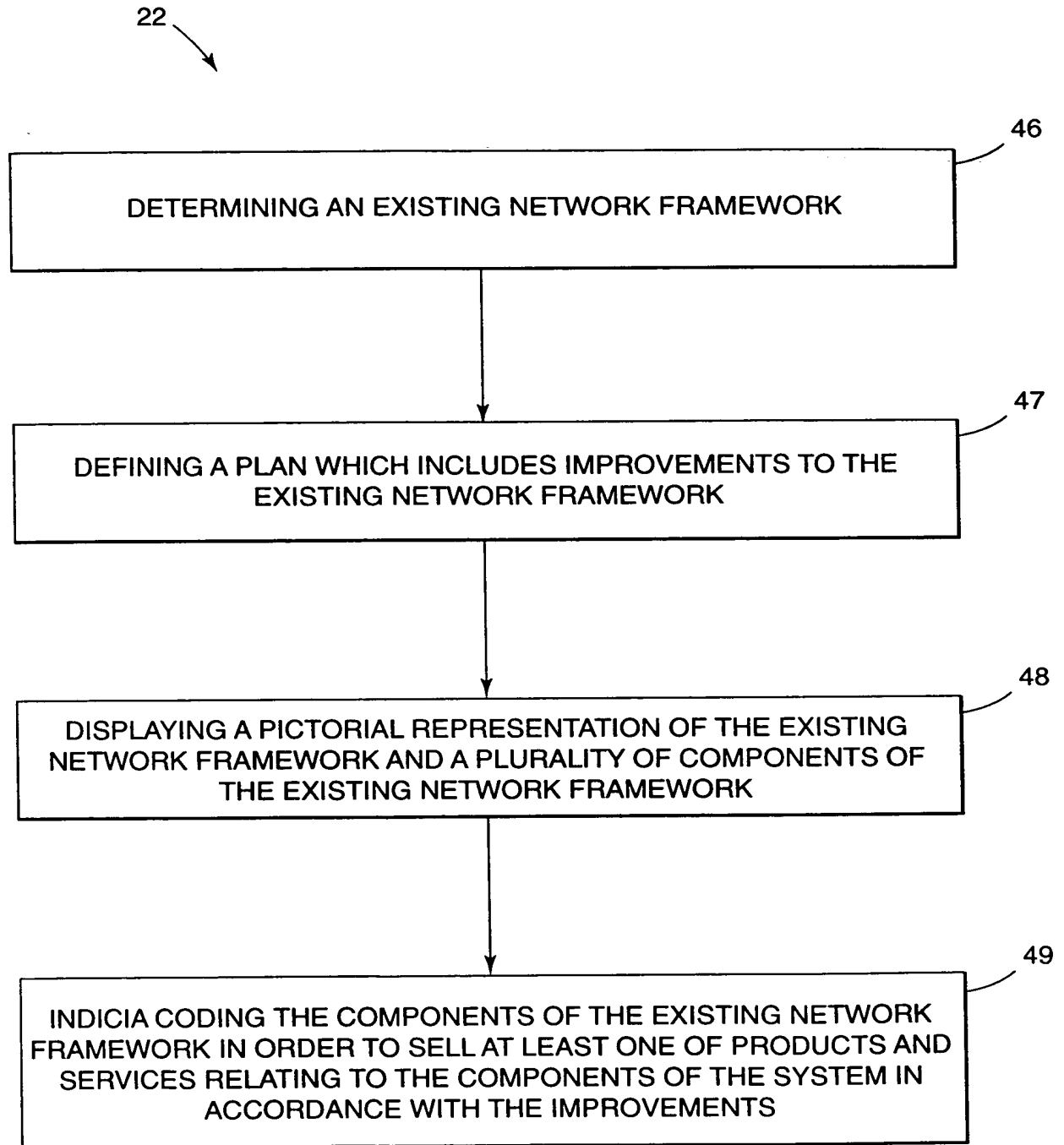


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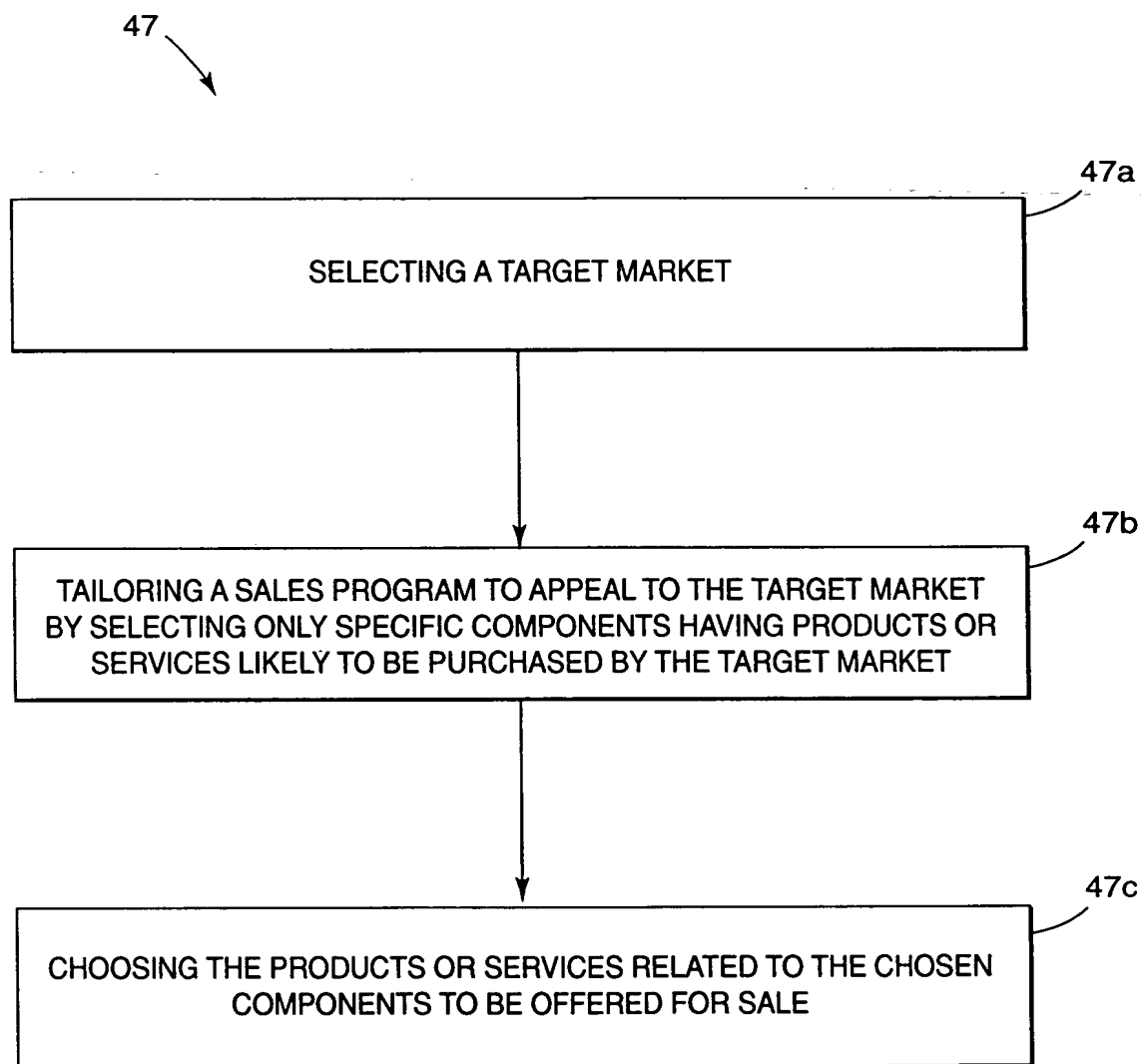


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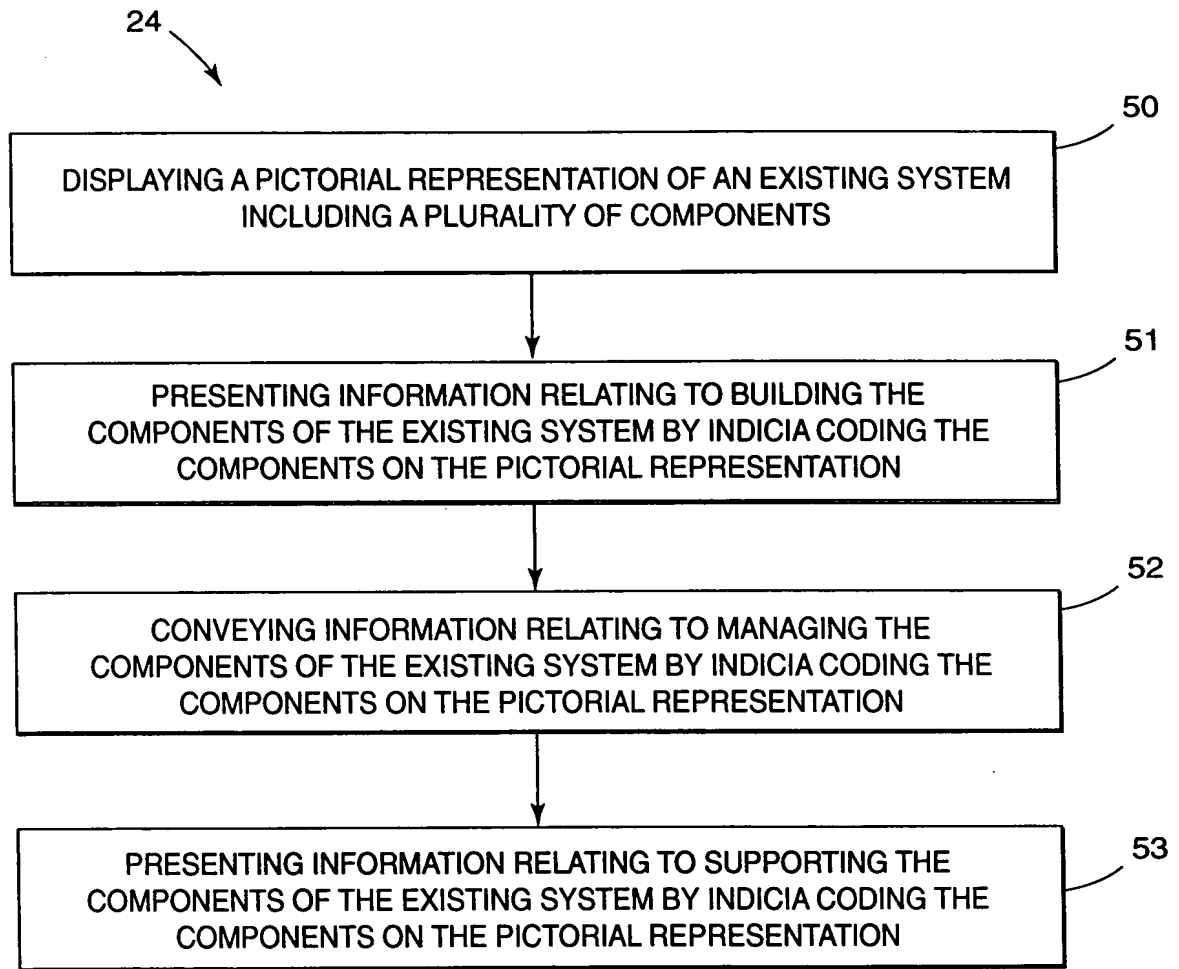


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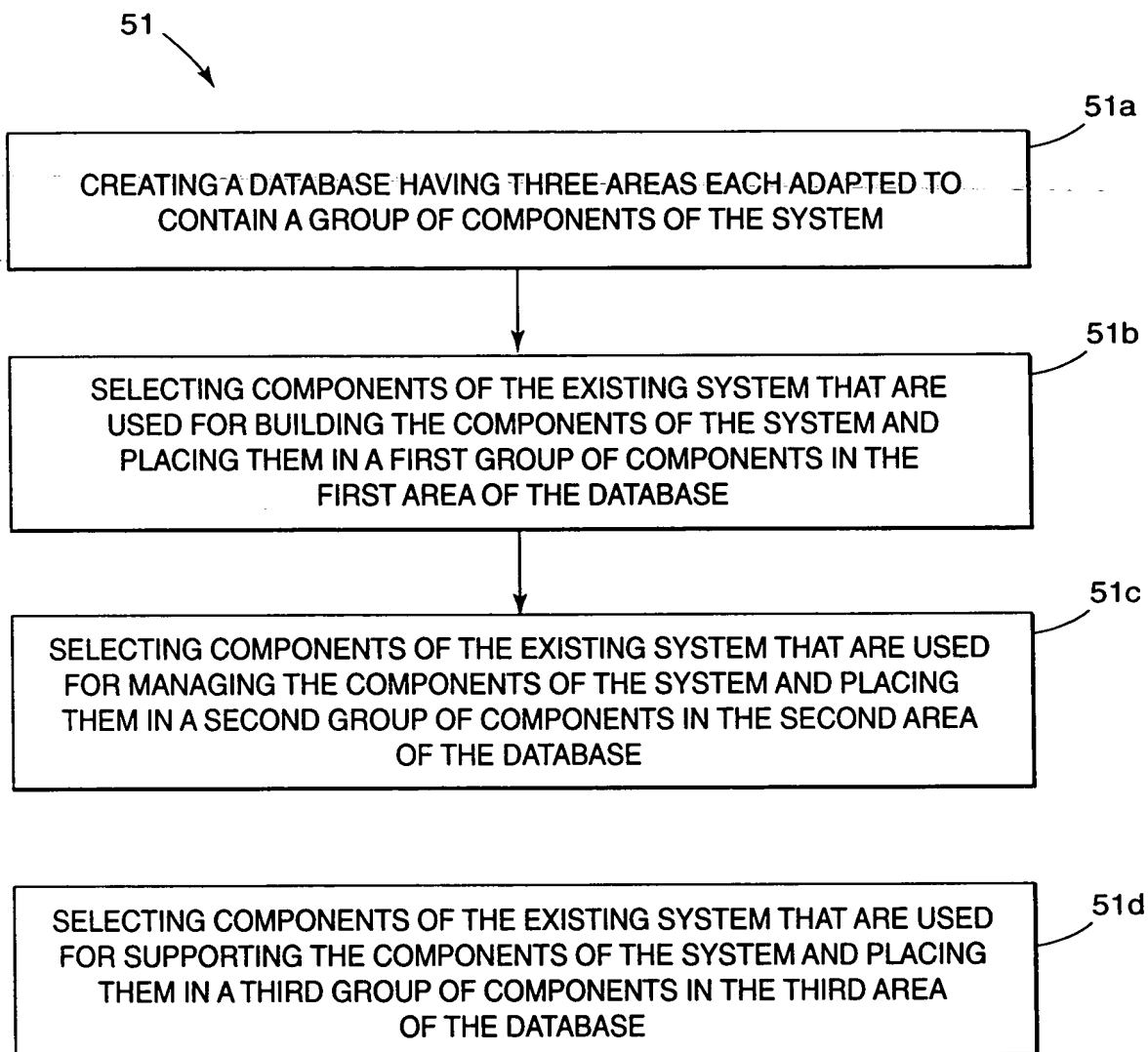


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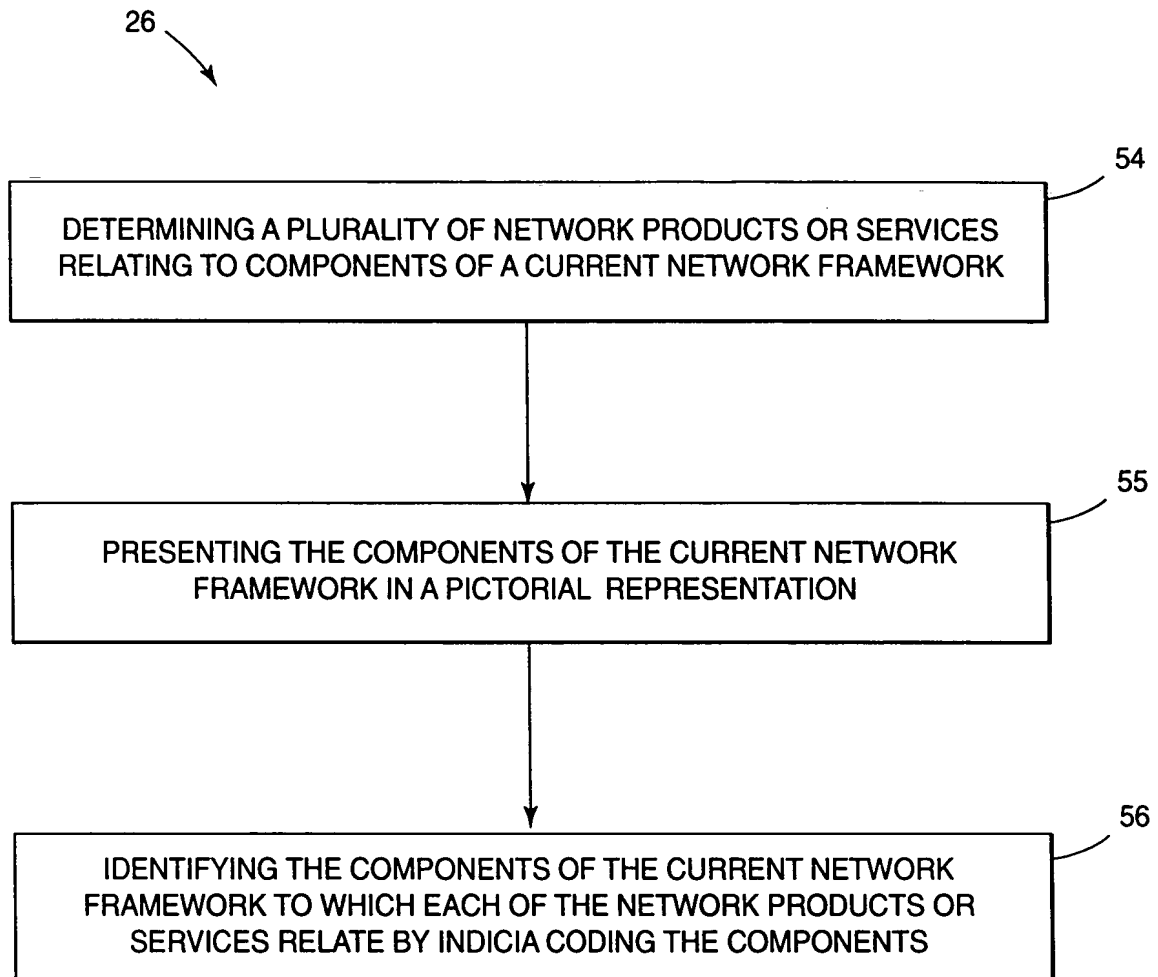


Fig. 16



56

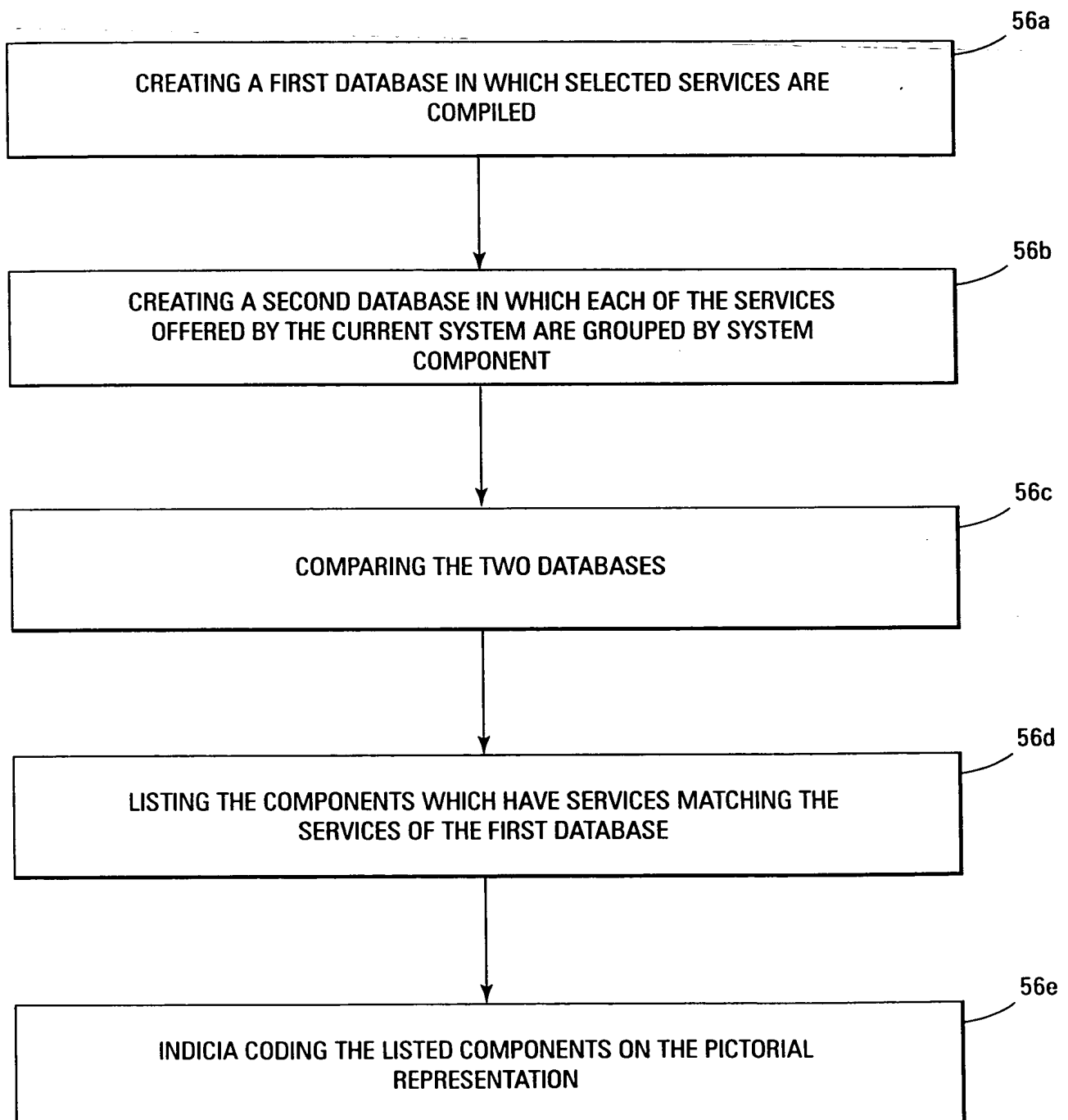


Fig. 17



28

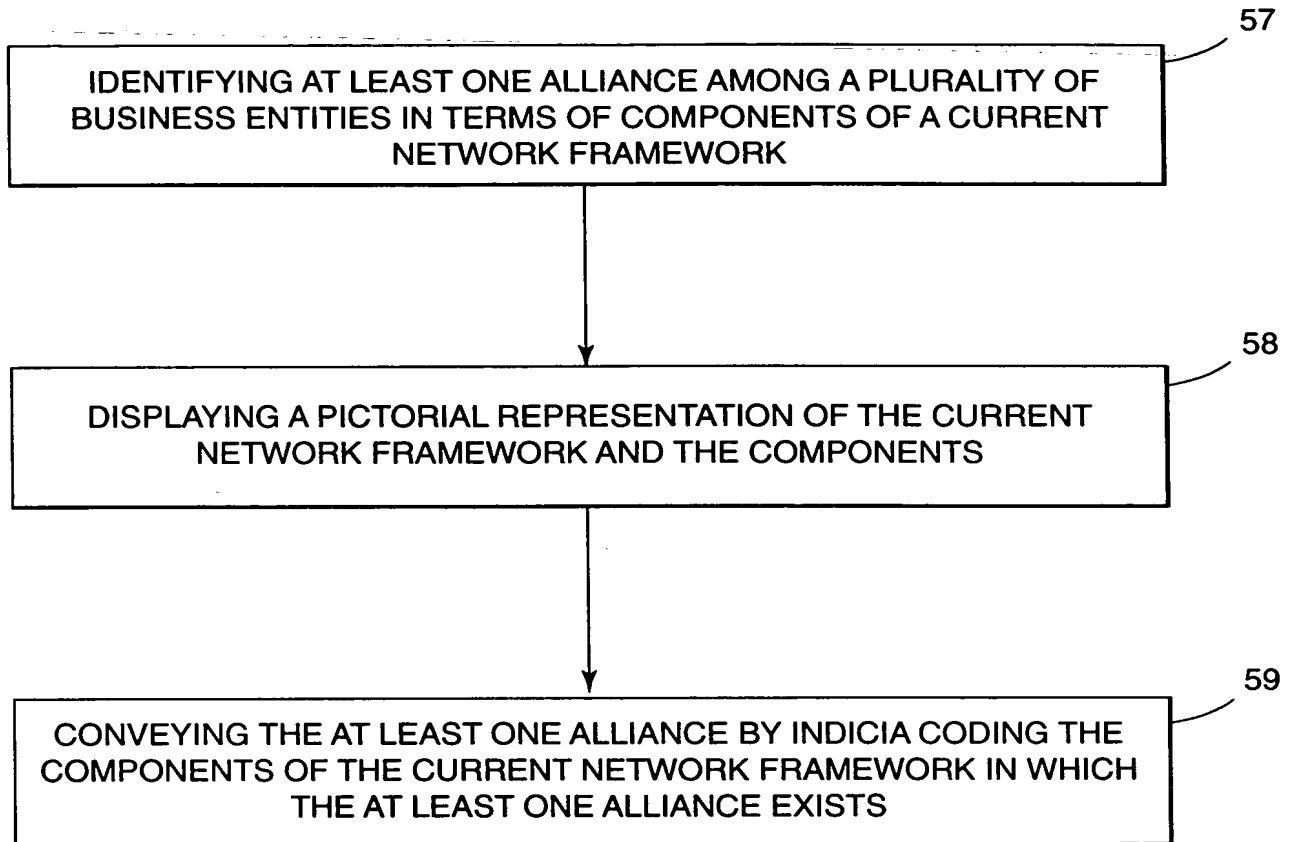


Fig. 18



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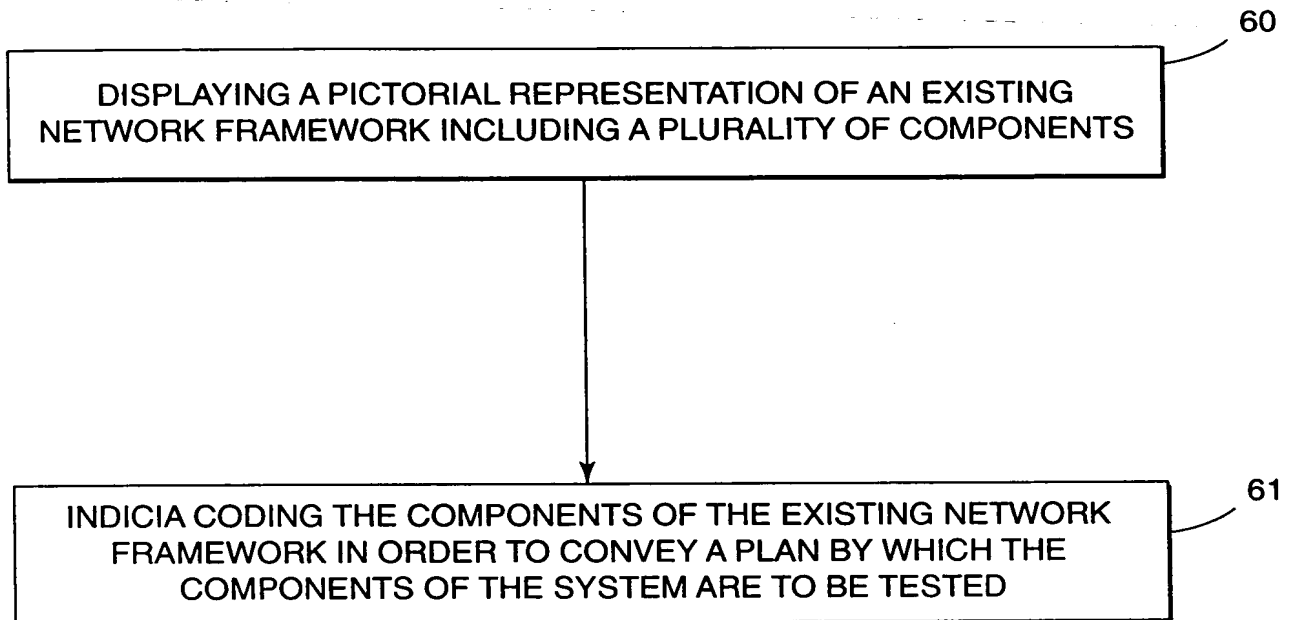


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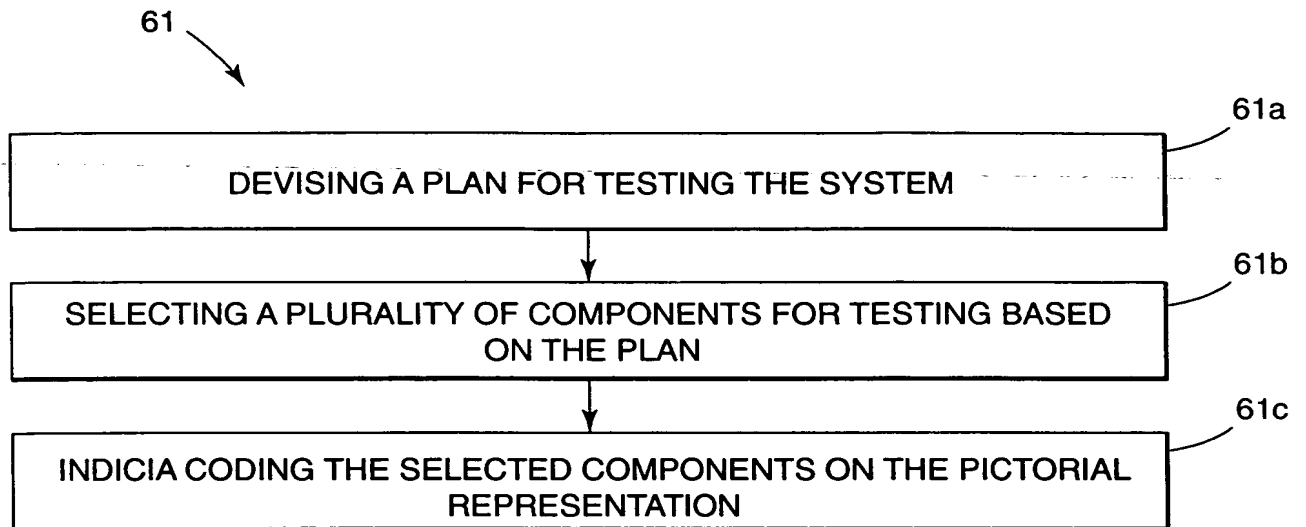
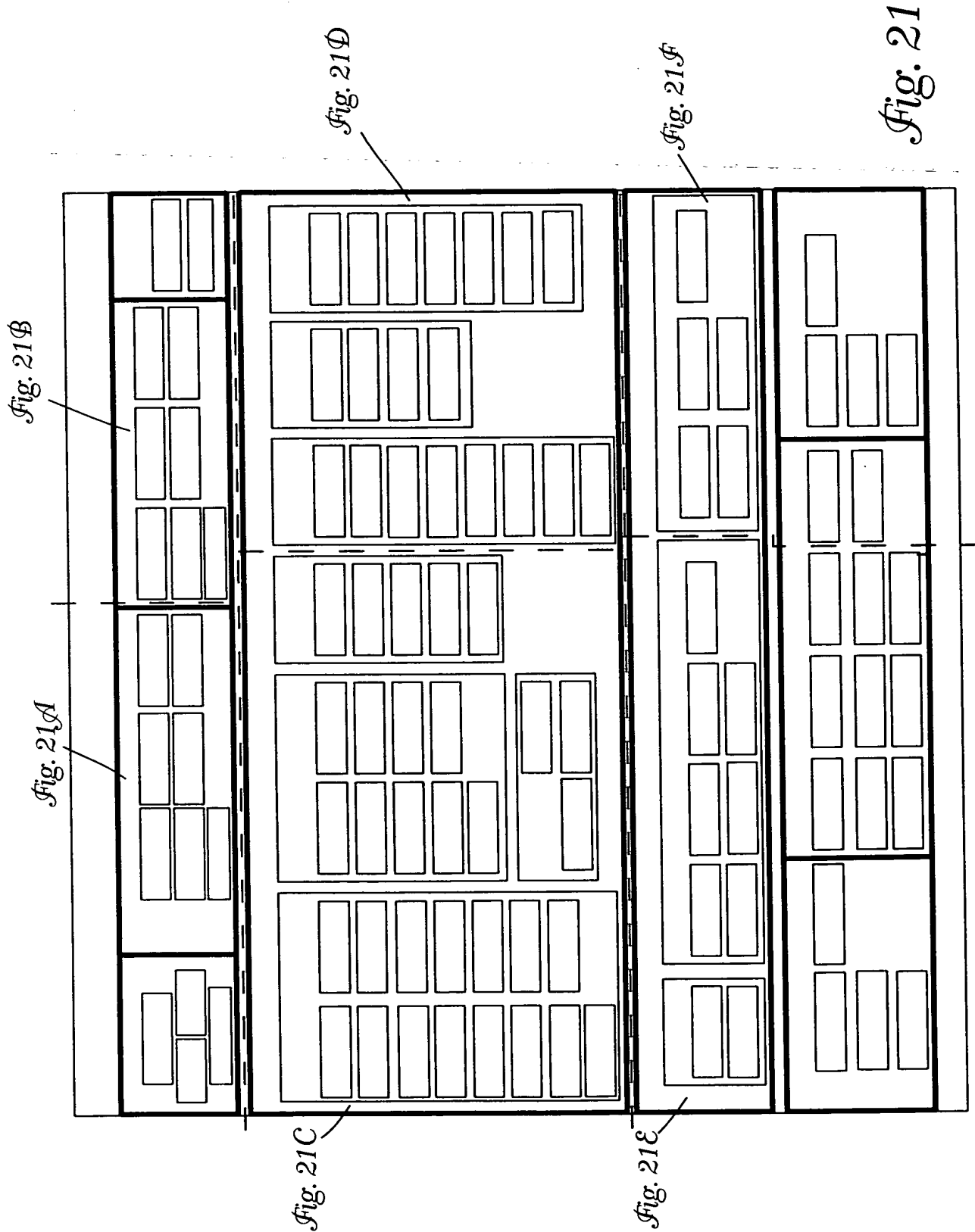


Fig. 20





Web Architecture Framework Base Chart

Security Services

Browser Based
Authentication

Web
Application
Entitlement

Web Data
Entitlement

Virtual Private Networks

Network Services

Web Content Caching

Network Object Mgmt

Application Proxy
Services

Quality of Service
(bandwidth)

Load Balancing

Remote Access
Services
(RADIUS)

Firewall Service

Fig. 21A

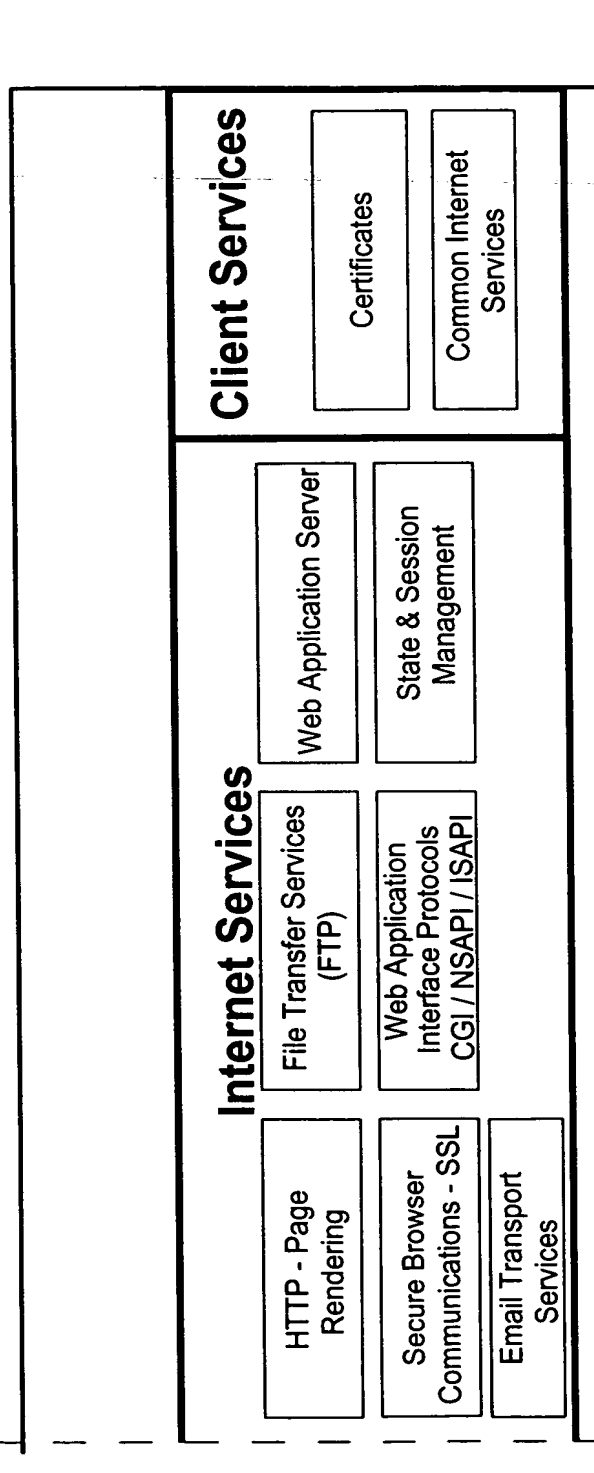


Fig. 21B

Commerce

Catalog Capabilities (products & services)

Product Details / Specs

Shopping Cart

Compare Products / Services

**Needs Assessment /
Buyer Assistant**

Product Configurator

Advertisement & Promotion Capabilities

Auction Capabilities

Quote (Price & Availability)

Order Placement

Tax & Shipping Calculations

**Transaction Processing
Capabilities (physical &
electronic)**

Electronic License Distribution & Management

Order Status / Order History

Lead Generation & Referral

Content Channels

Download Capabilities

Push Technology Capabilities

**Discussion Forums
(newsgroups)**

Content Subscriptions

FAQs

What Capabilities (Real-time)

Generate Coordinated / Targeted Messages (outbound email)

**Manage Email Receipt
& Delivery (inbound
email)**

Dynamic Rendering (template based publishing)

Customer

Relationship Mgmt

**User Profile Mgmt
(Active Profiling)**

Dynamically Facilitate Communities of Interest

Match Web content to specific user profiles

Customer Feedback & Surveys

Events, Calendaring & Registration

Administrative & Miscellaneous

Shareholder Services

Legal Services

On-line Recruiting

Fig. 21C

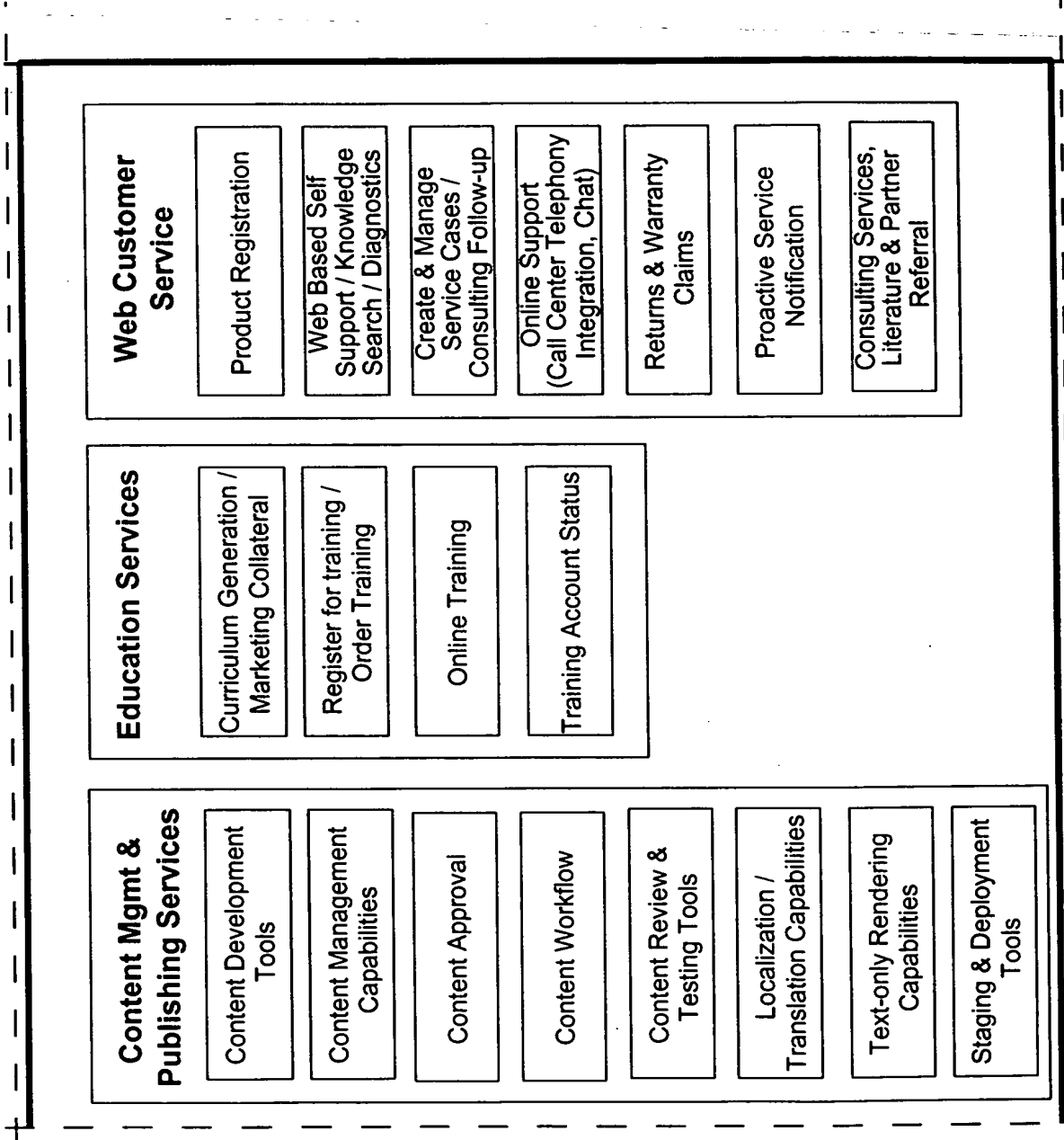


Fig. 21D

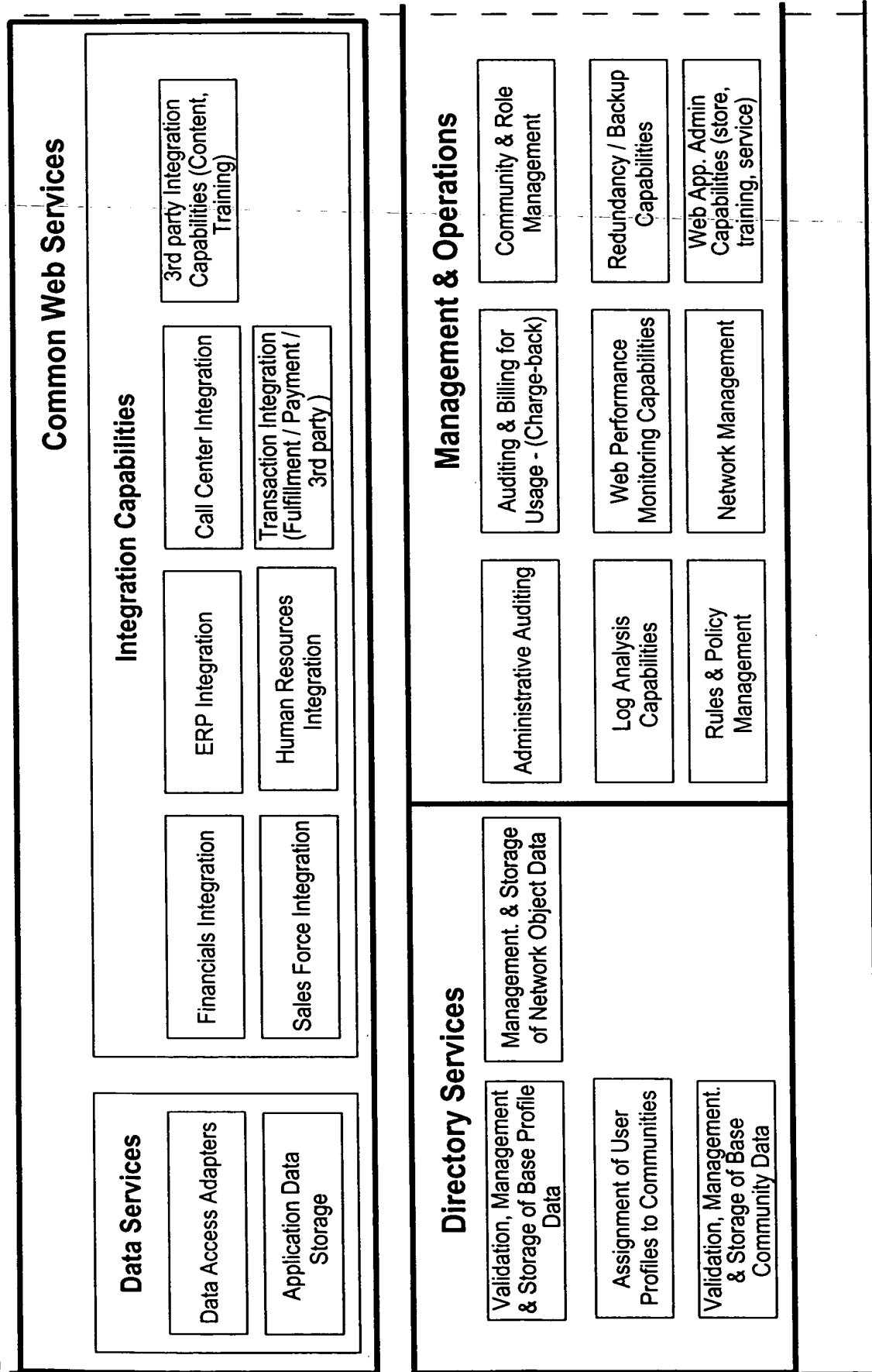


Fig. 21E

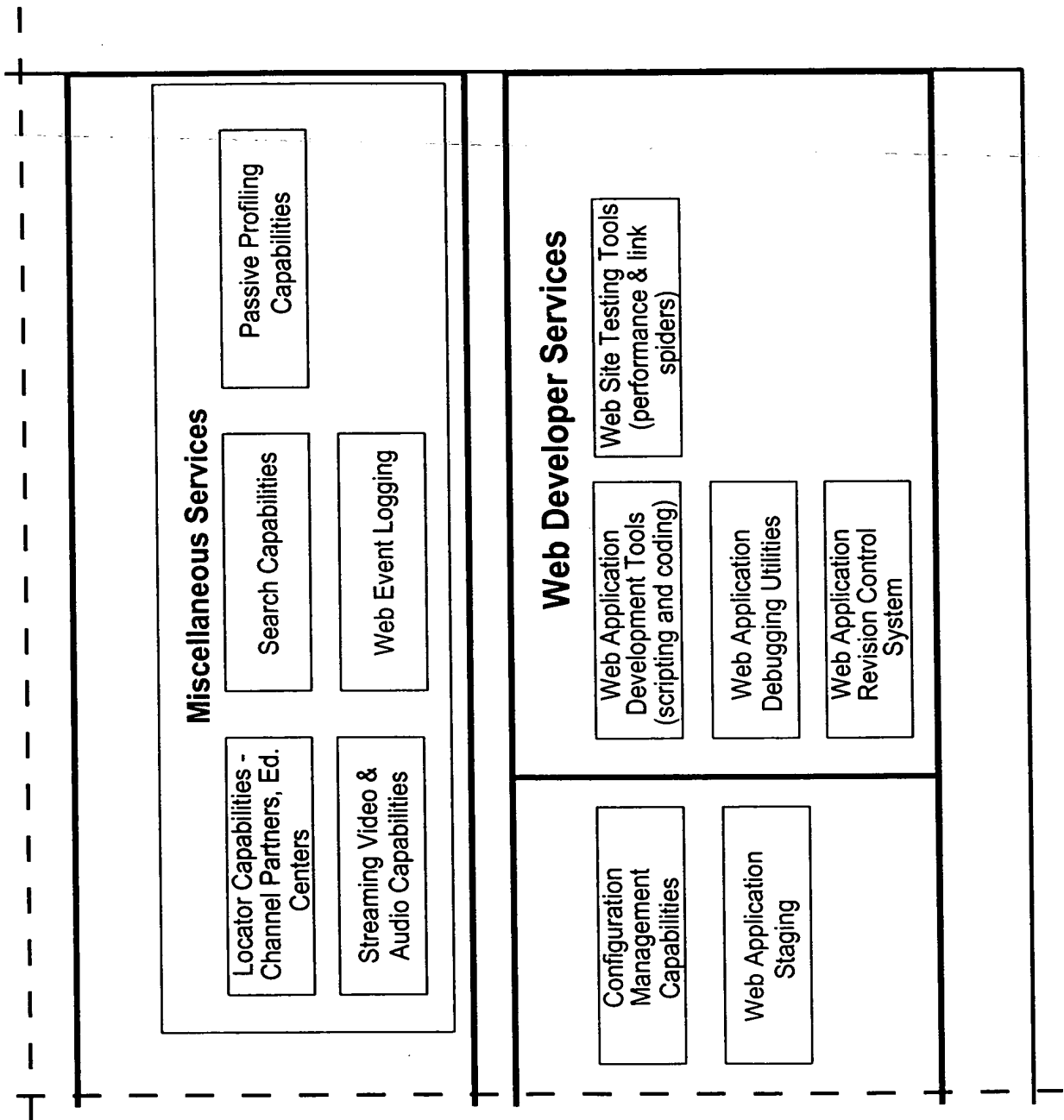


Fig. 21f

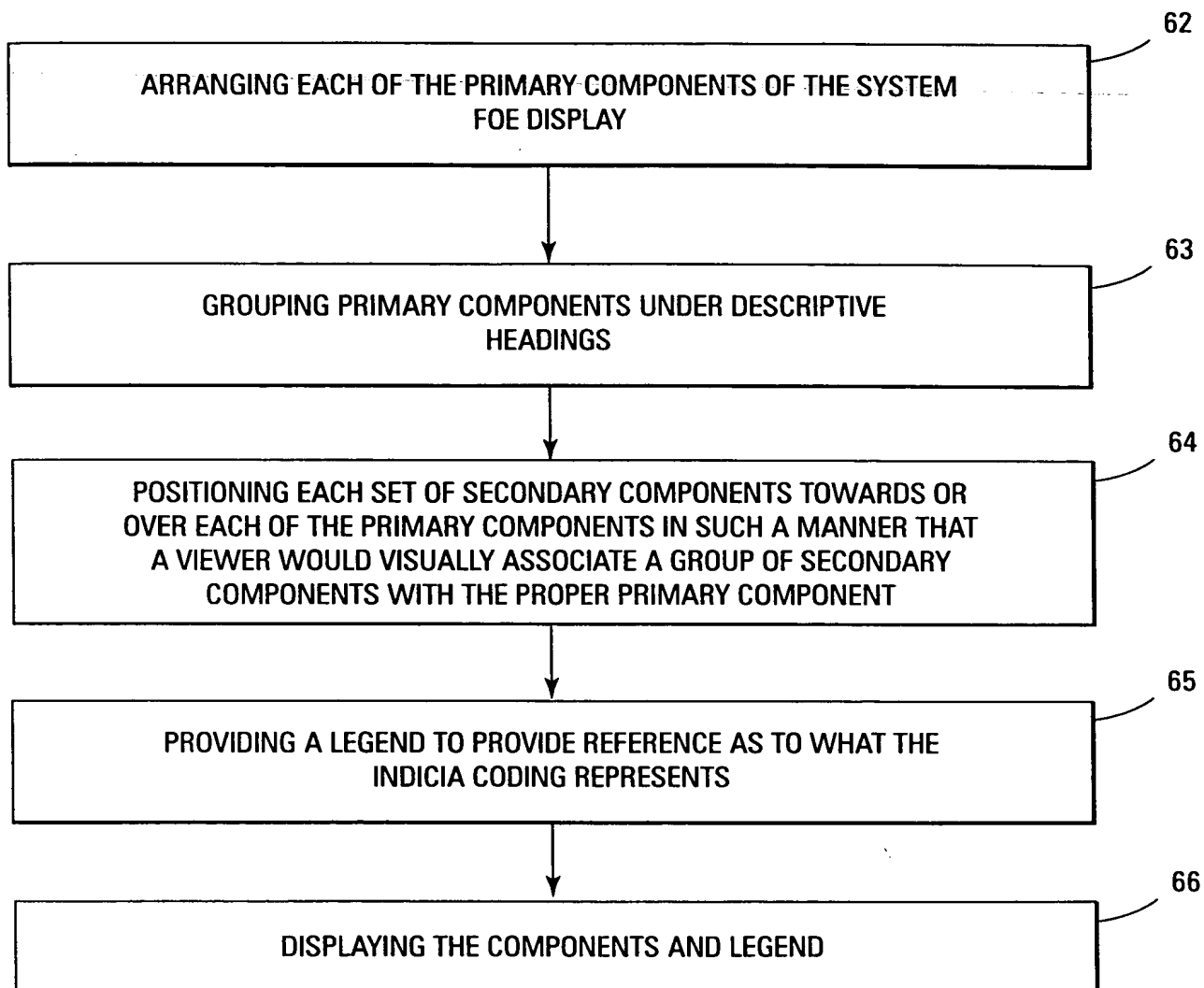


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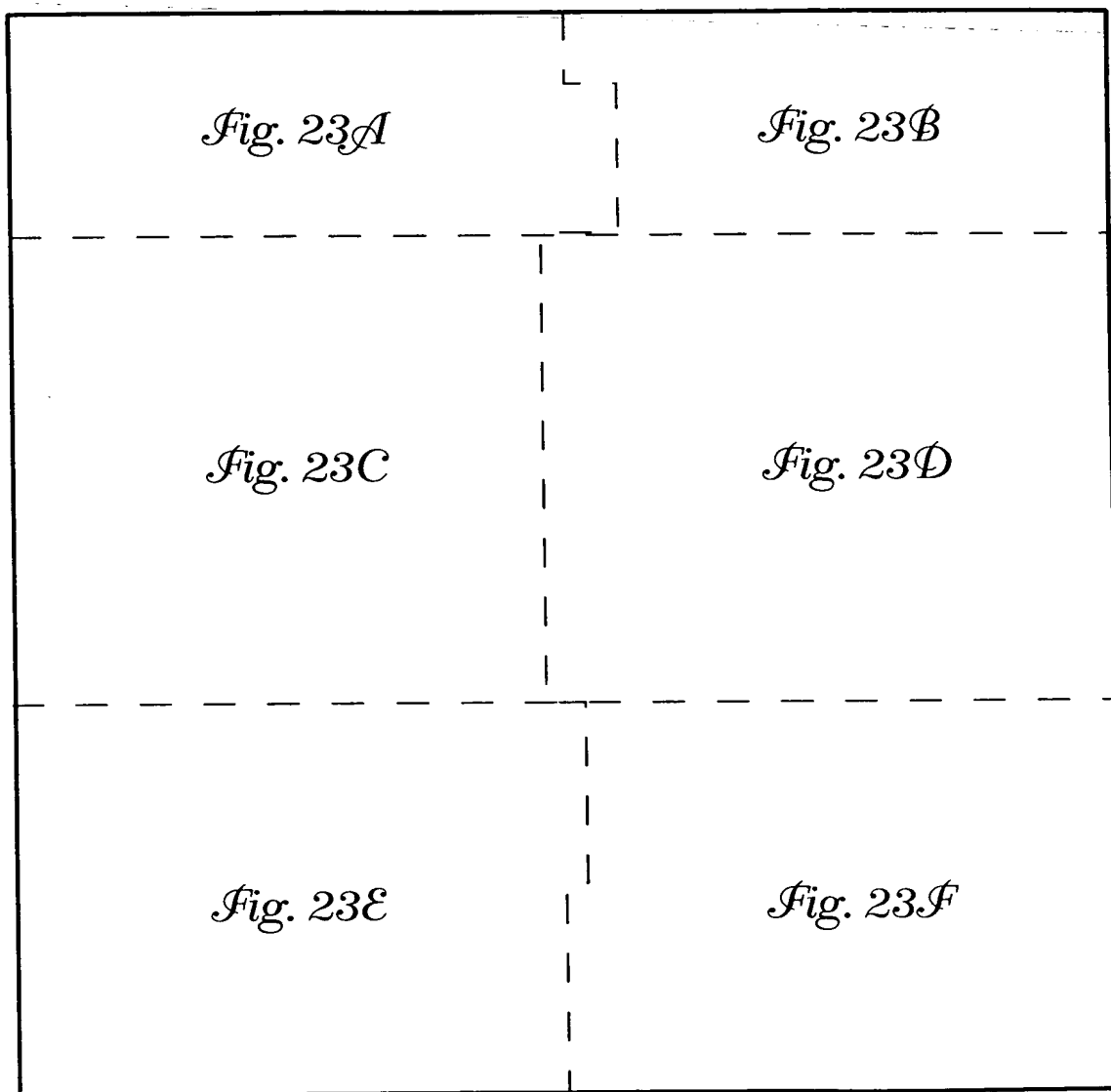


Fig. 23



Web Architecture Framework - Today's Environment

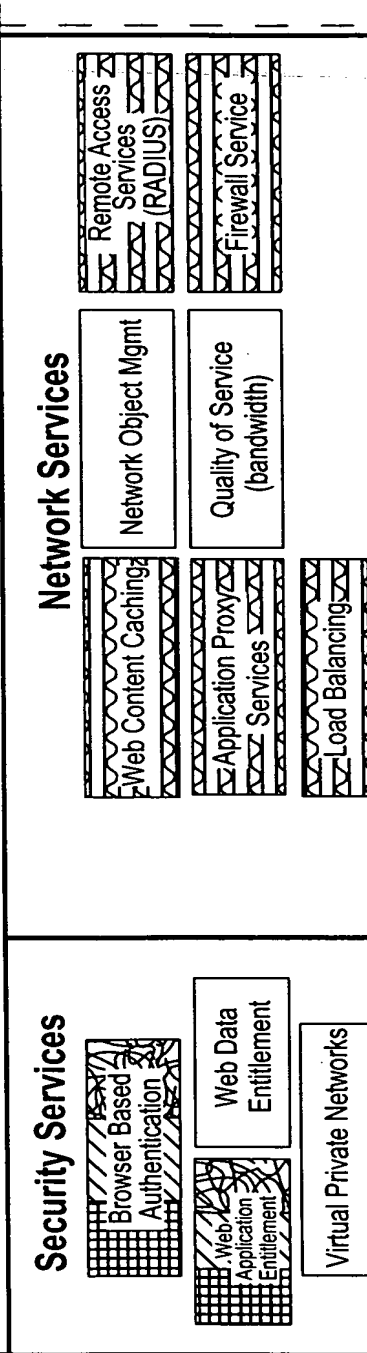


Fig. 23A

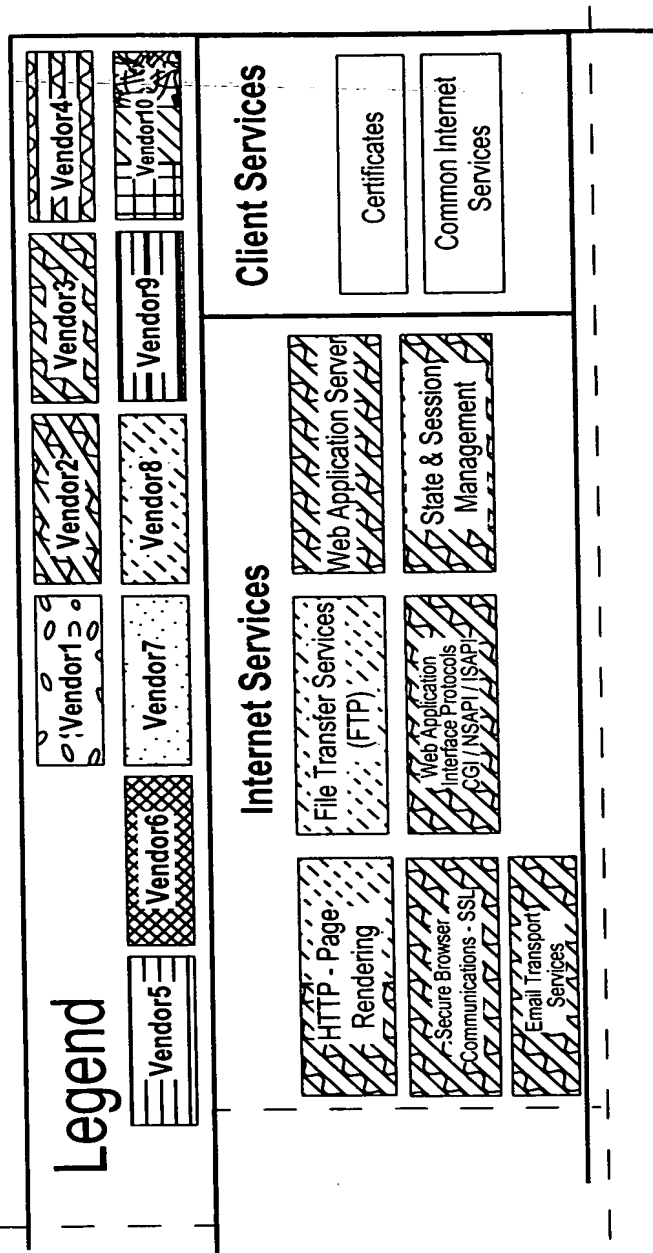
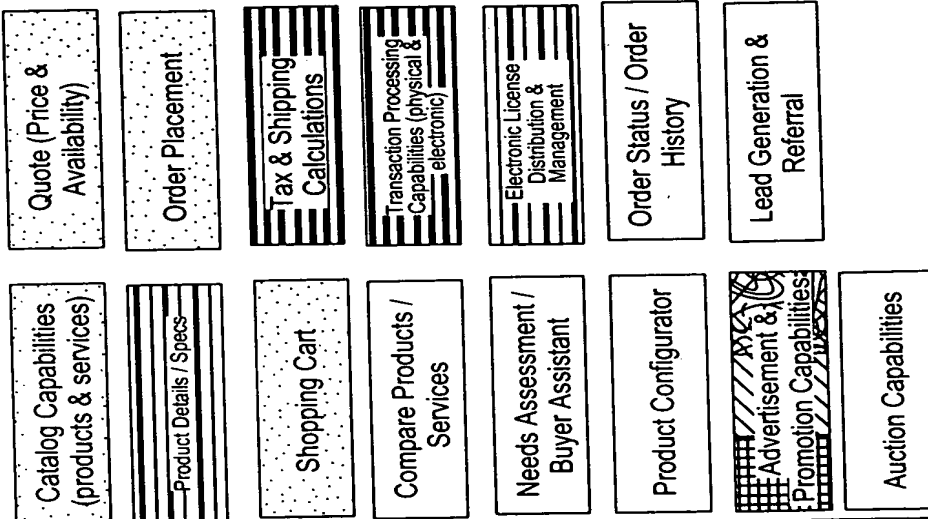


Fig. 23B

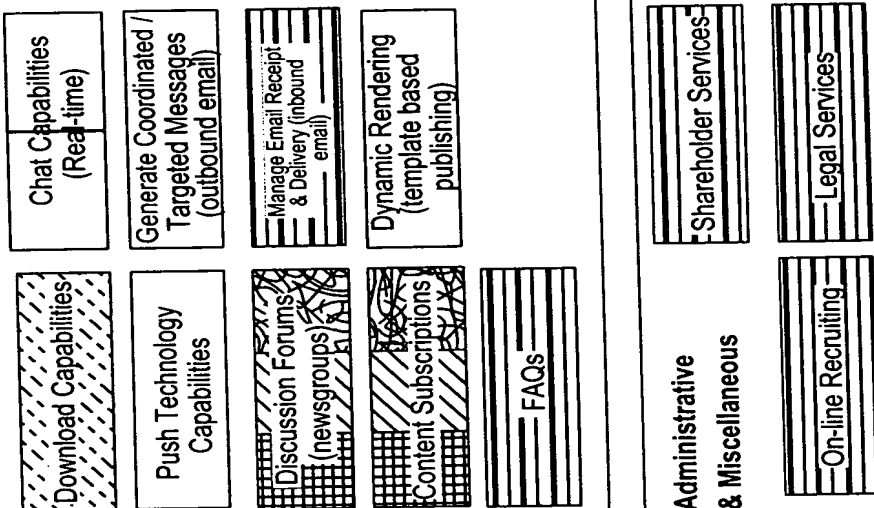


Web Application Services

Commerce



Content Channels



Administrative & Miscellaneous

Fig. 23C

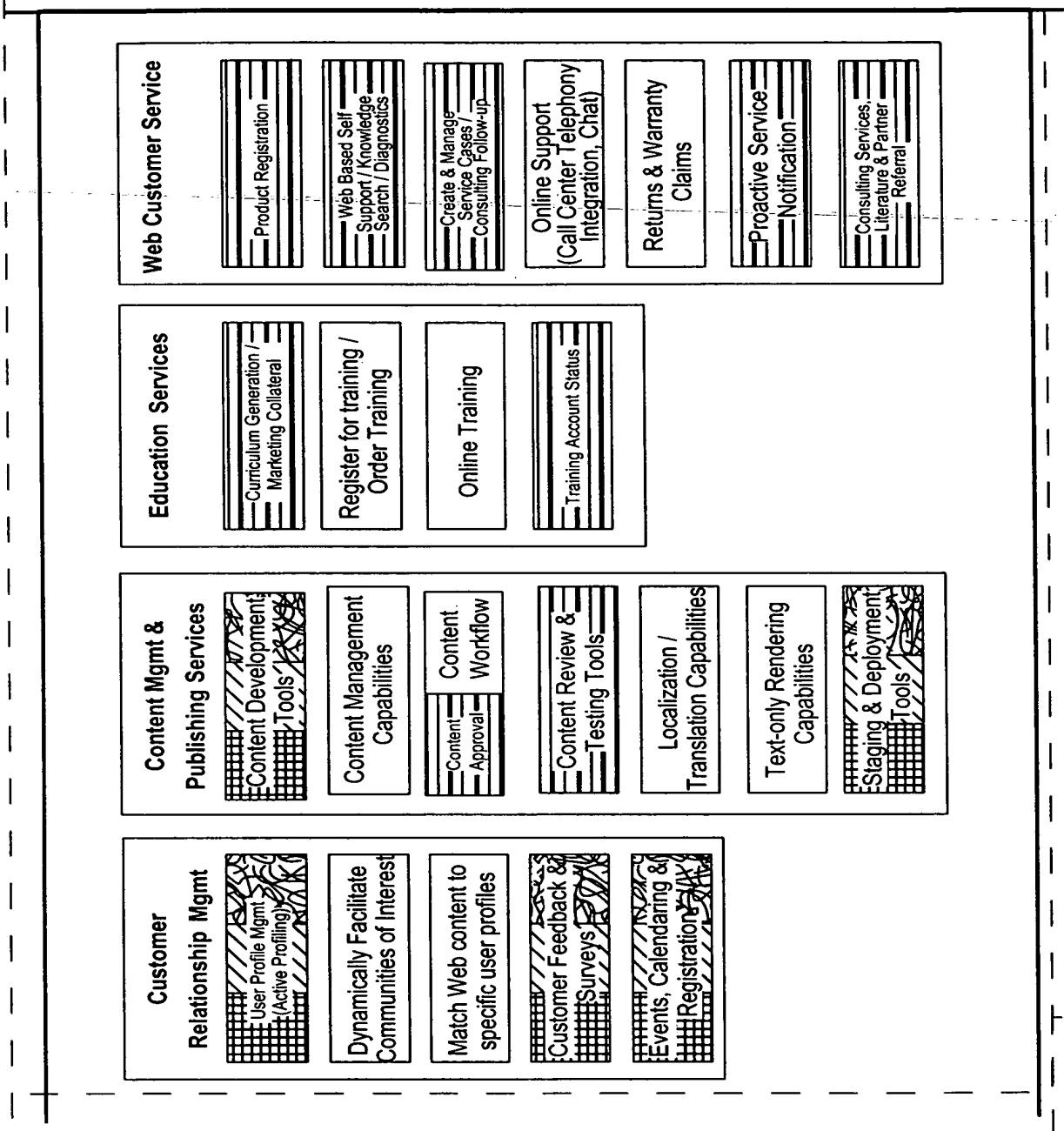


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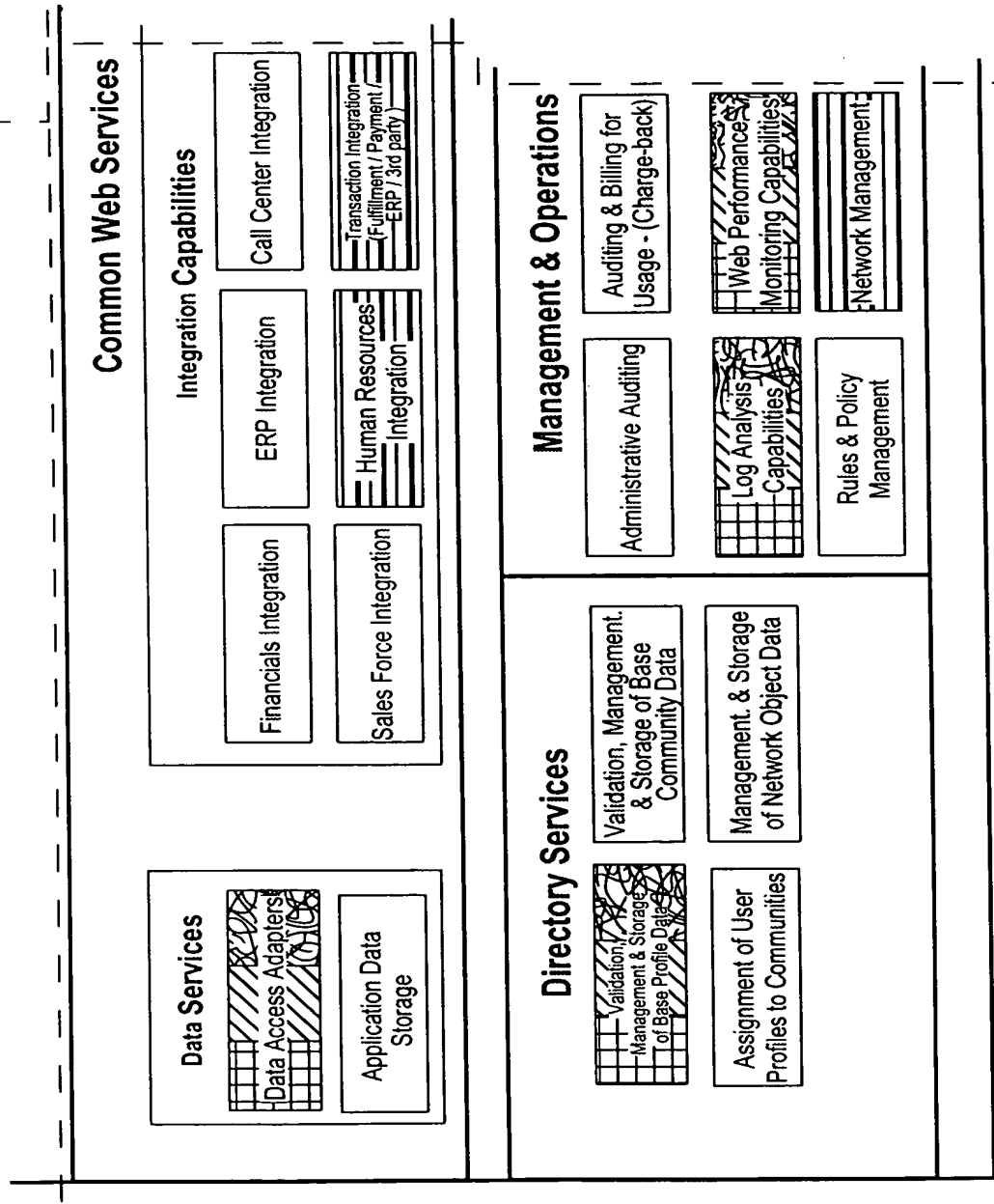


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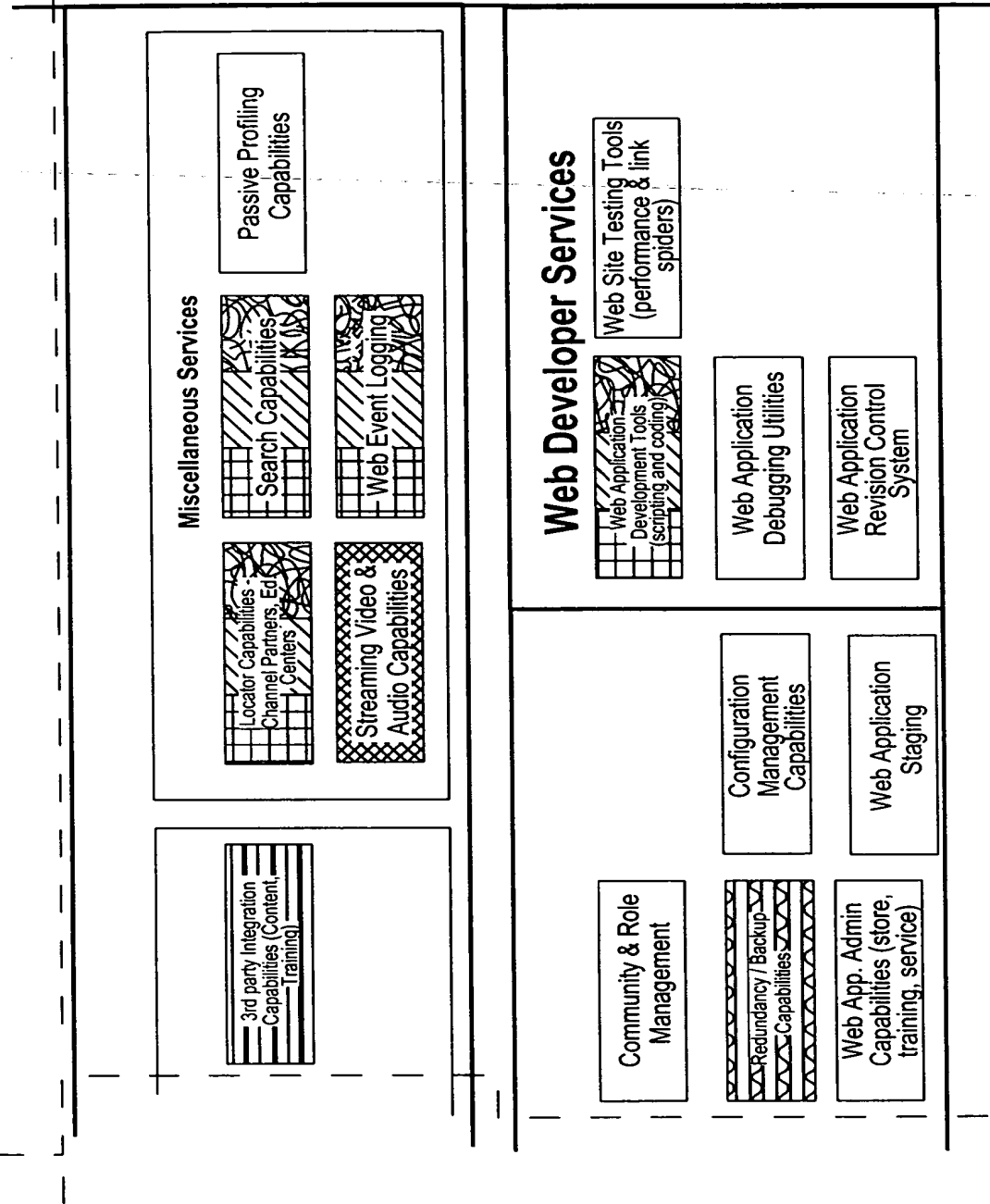


Fig. 23A

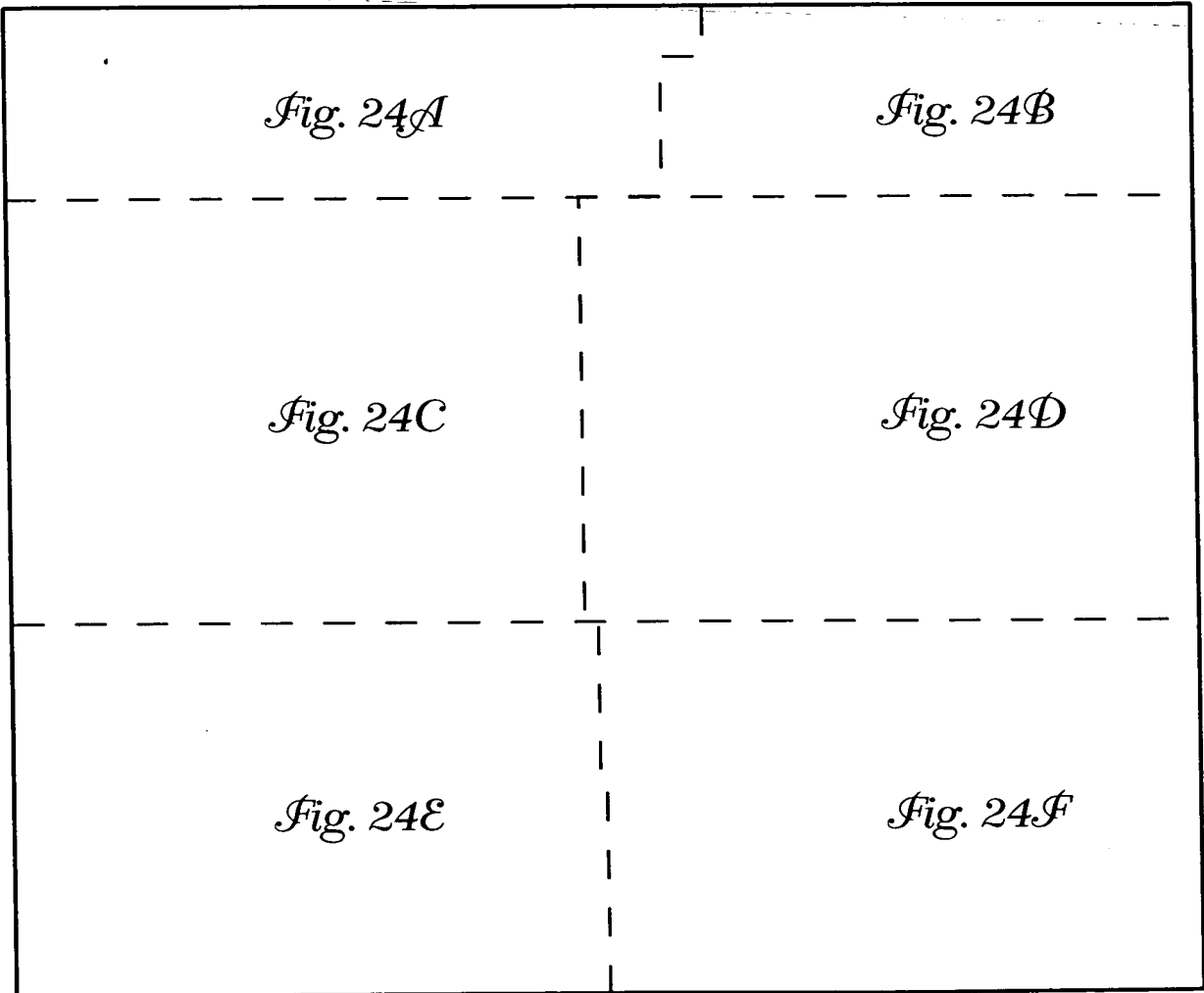


Fig. 24



Web Architecture Framework - Core Commerce Capabilities

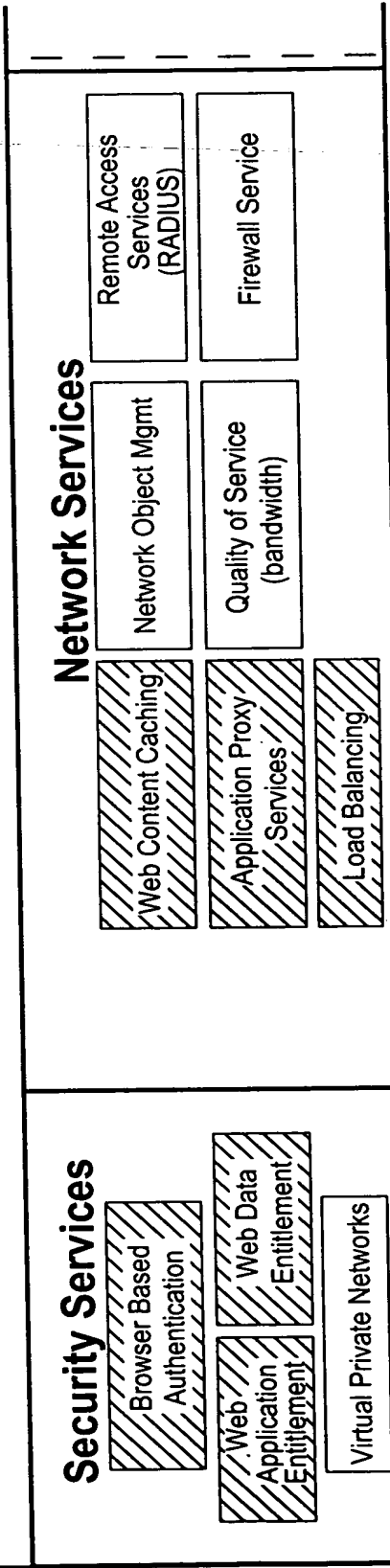


Fig. 24A

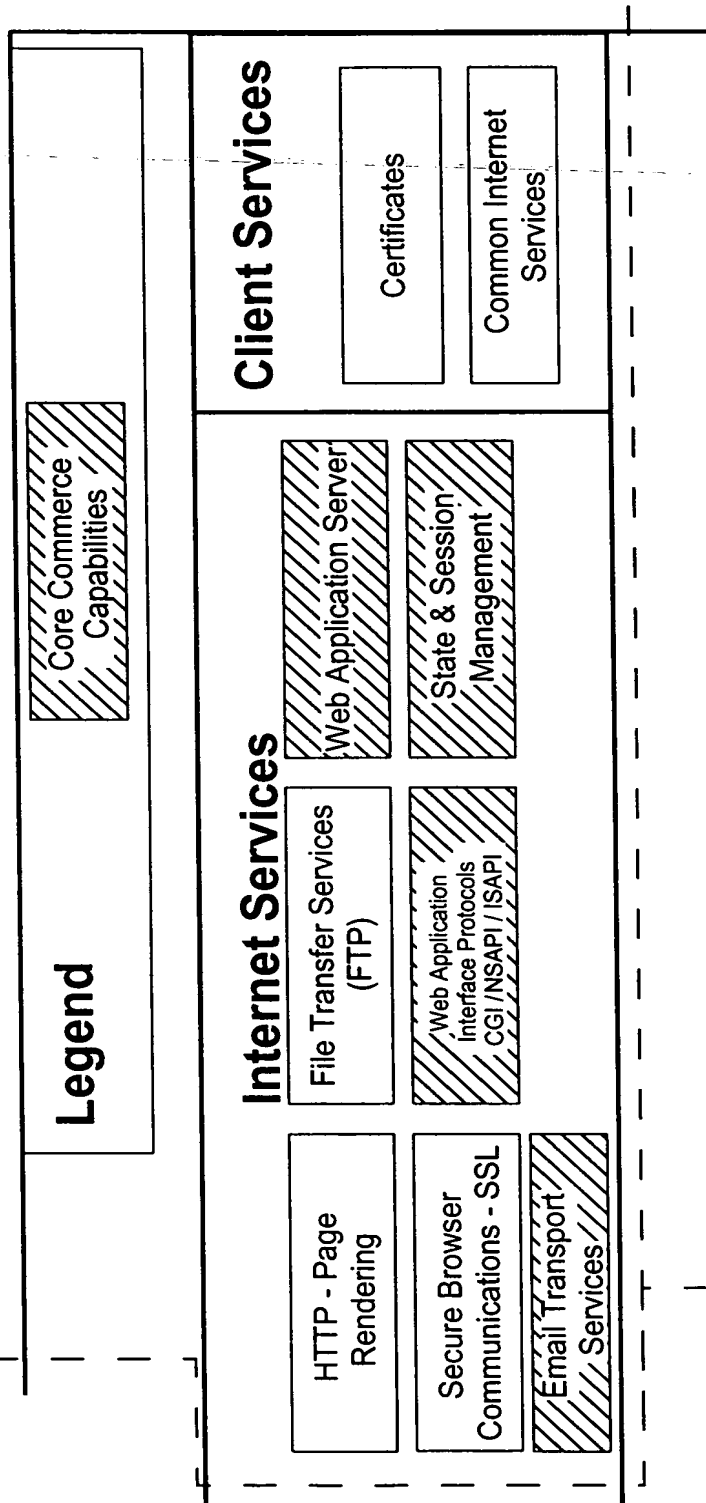


Fig. 24B



Web Application Services

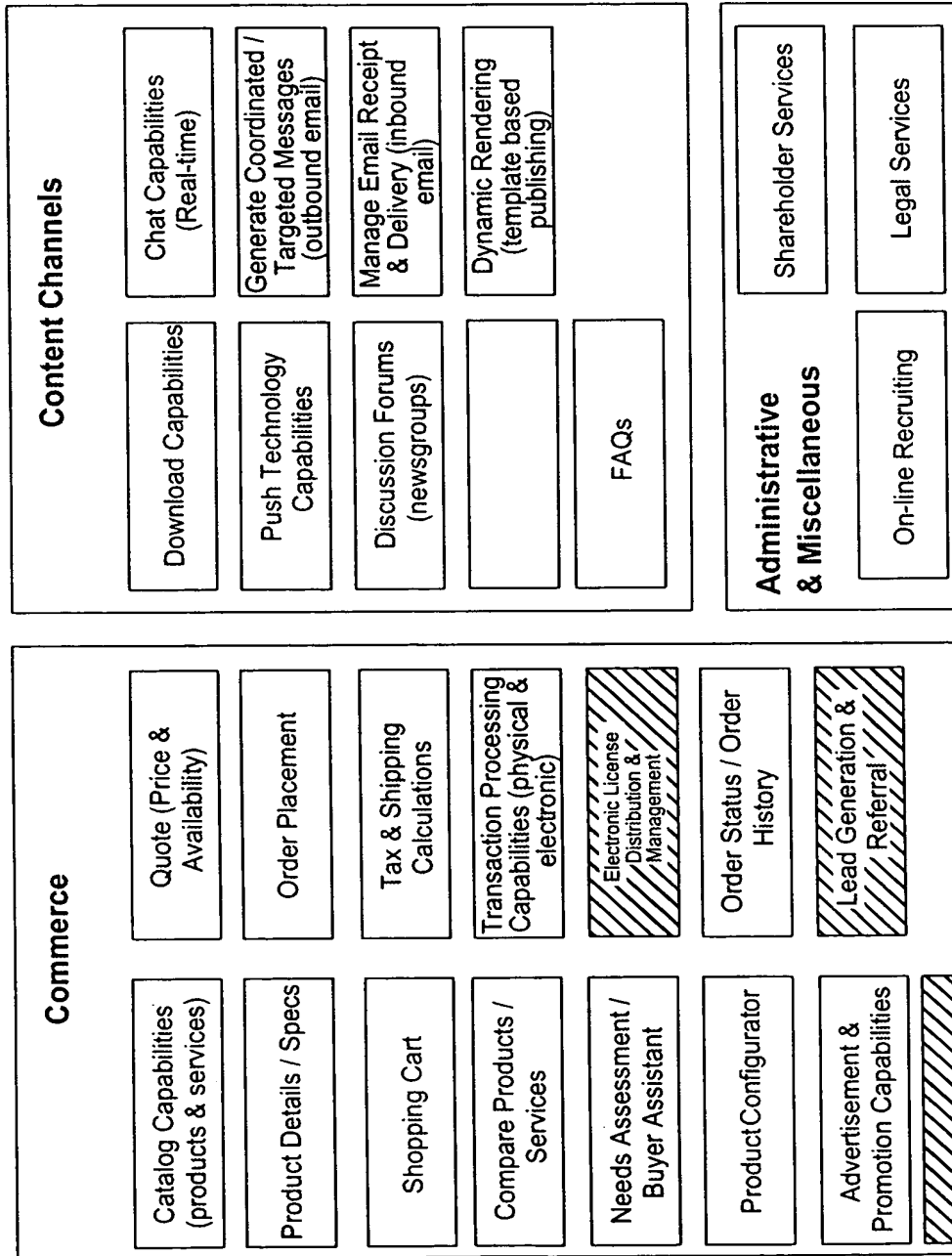


Fig. 24C

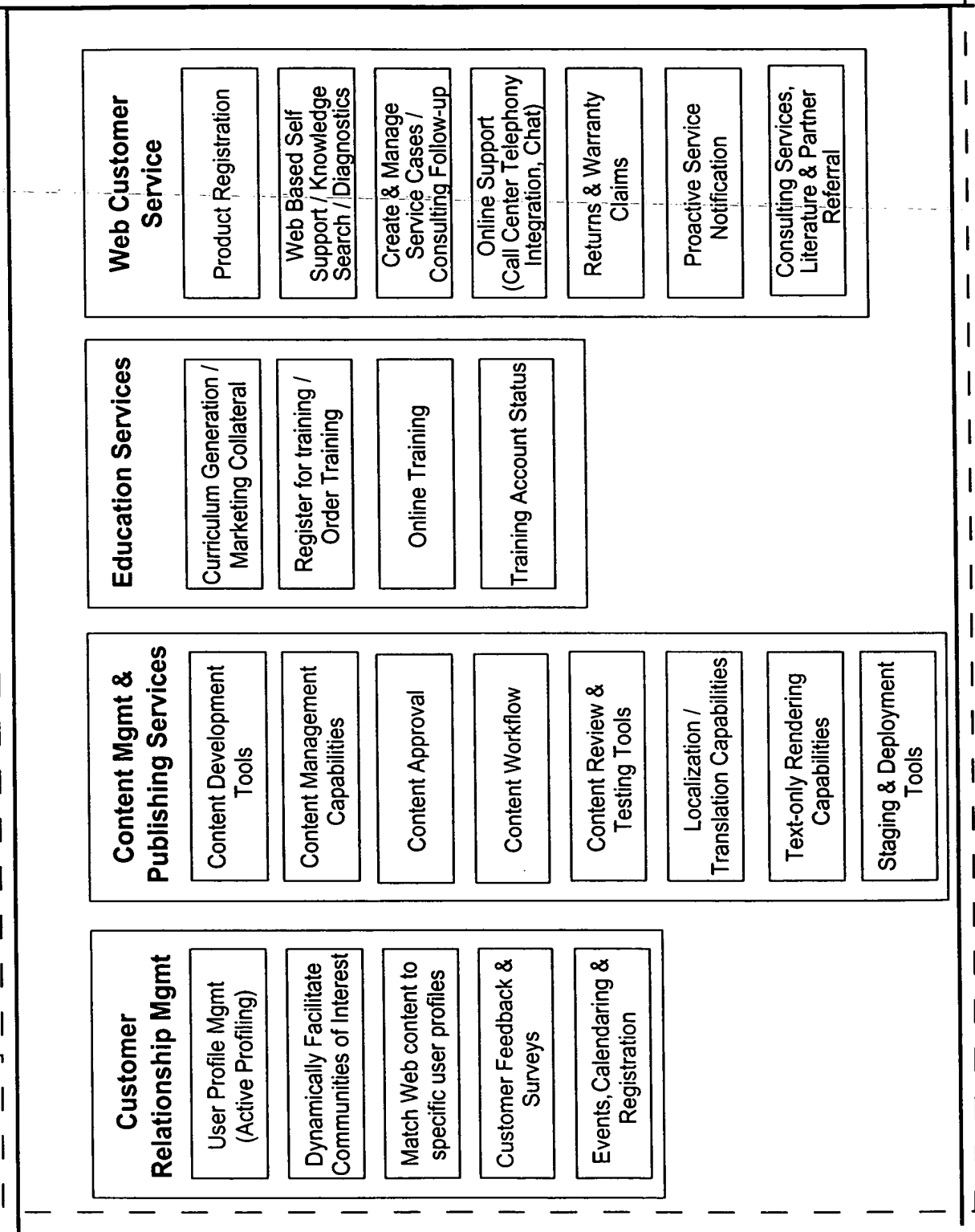
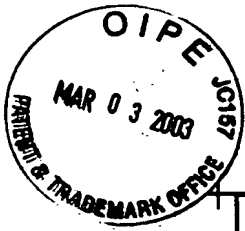
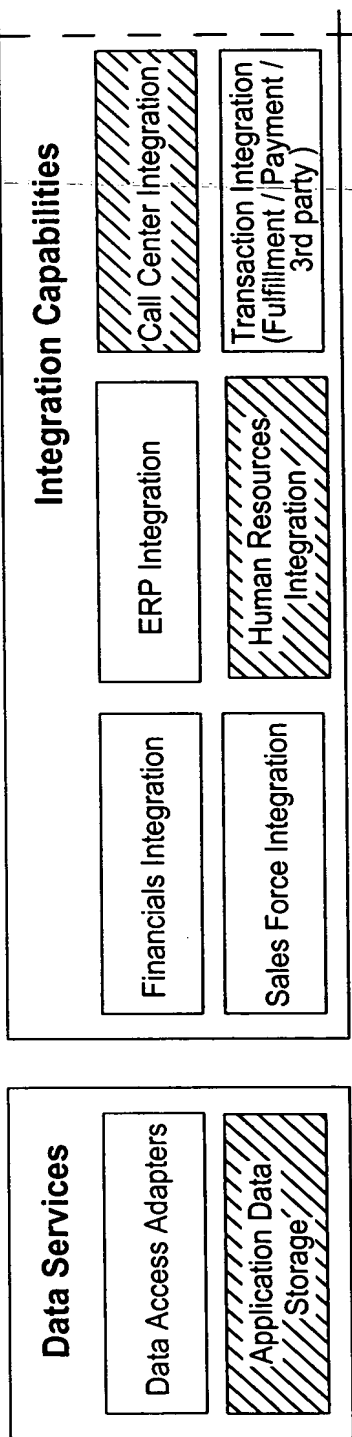


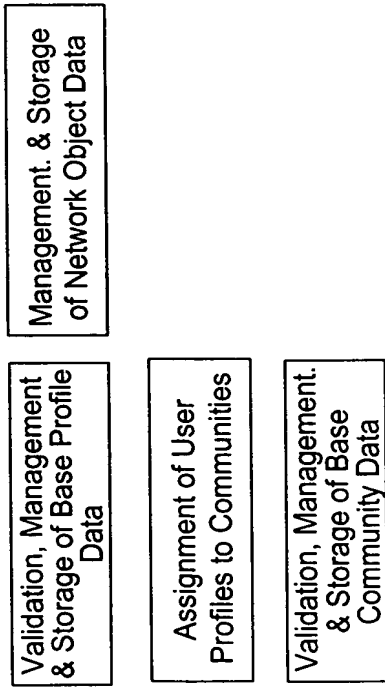
Fig. 24D



Common Web Services



Directory Services



Management & Operations

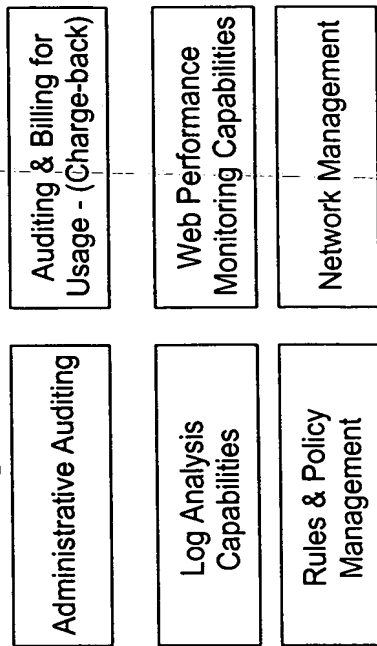


Fig. 24E

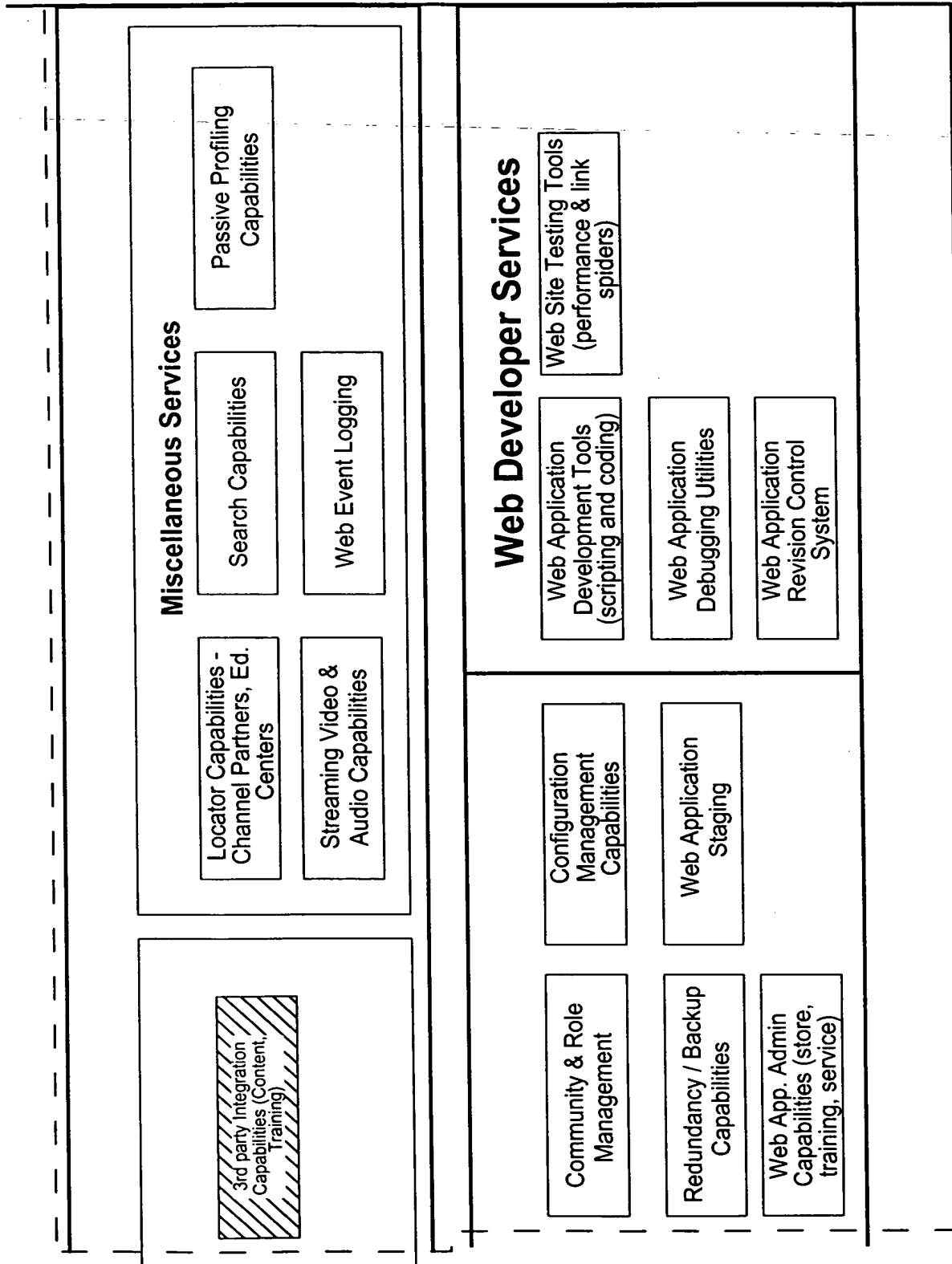


Fig. 24F



Inventor: GUHEEN ET AL.
Docket No.: 8567.108US01
Title: WEB-BASED ARCHITECTURE SALES TOOL (AS AMENDED)
Serial No.: 09/322,073
Sheet 43 of 177

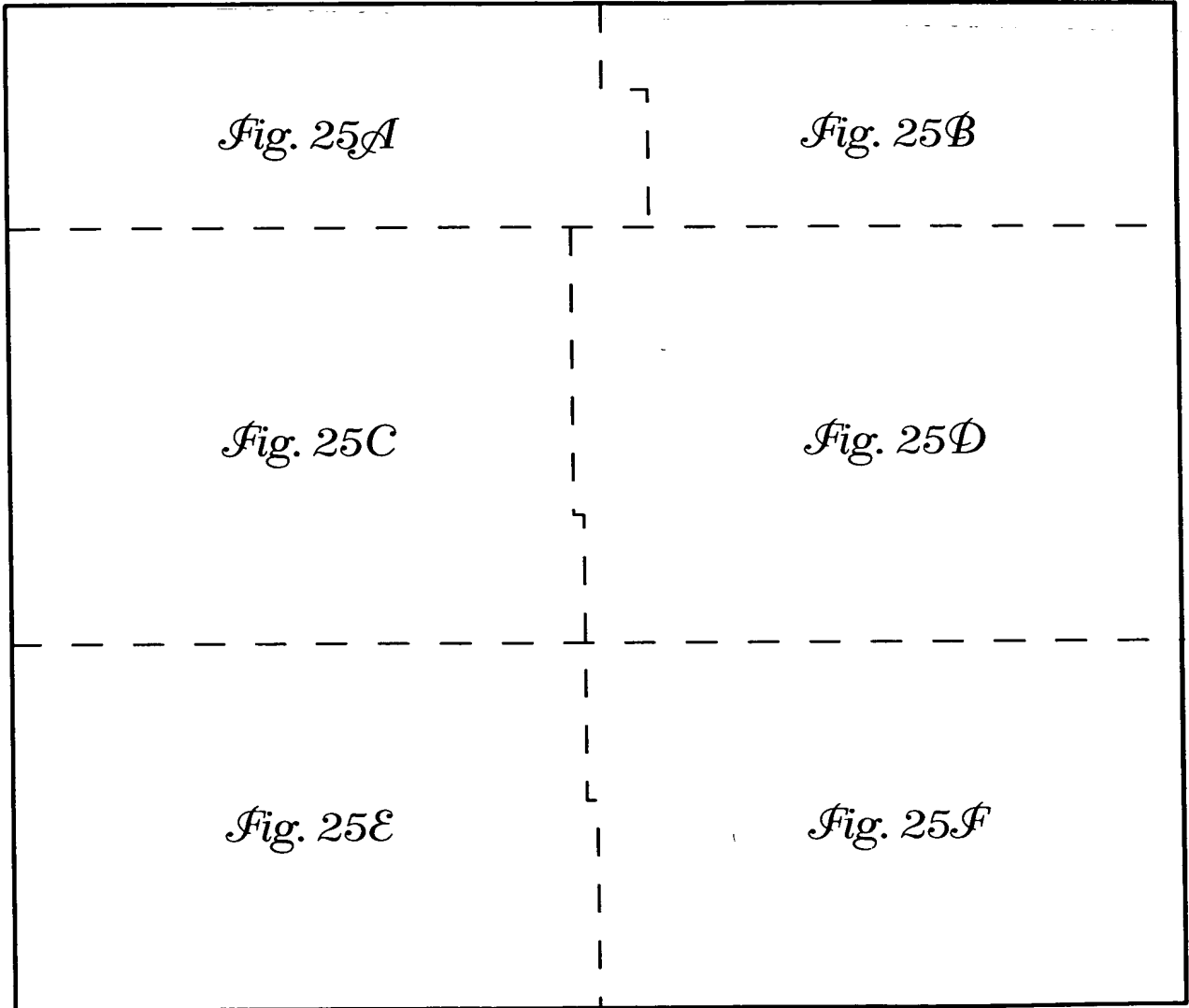


Fig. 25



Web Architecture Framework - Immediate Activities

Security Services

Browser Based Authentication

Web Application Entitlement

Web Data Entitlement

Virtual Private Networks

Network Services

Web Content Caching

Network Object Mgmt

Remote Access Services (RADIUS)

Application Proxy Services

Quality of Service (bandwidth)

Firewall Service

Load Balancing

Fig. 25A

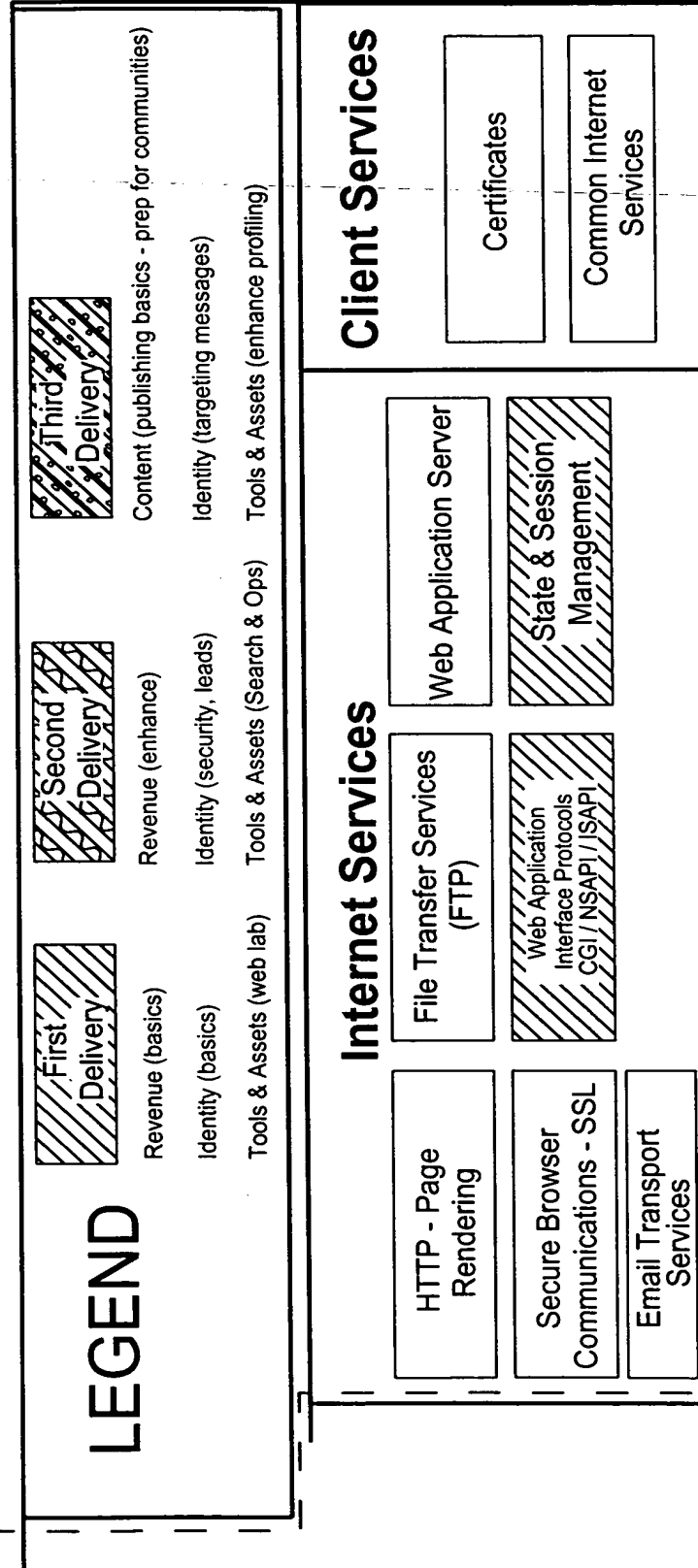


Fig. 25B



Web Application Services

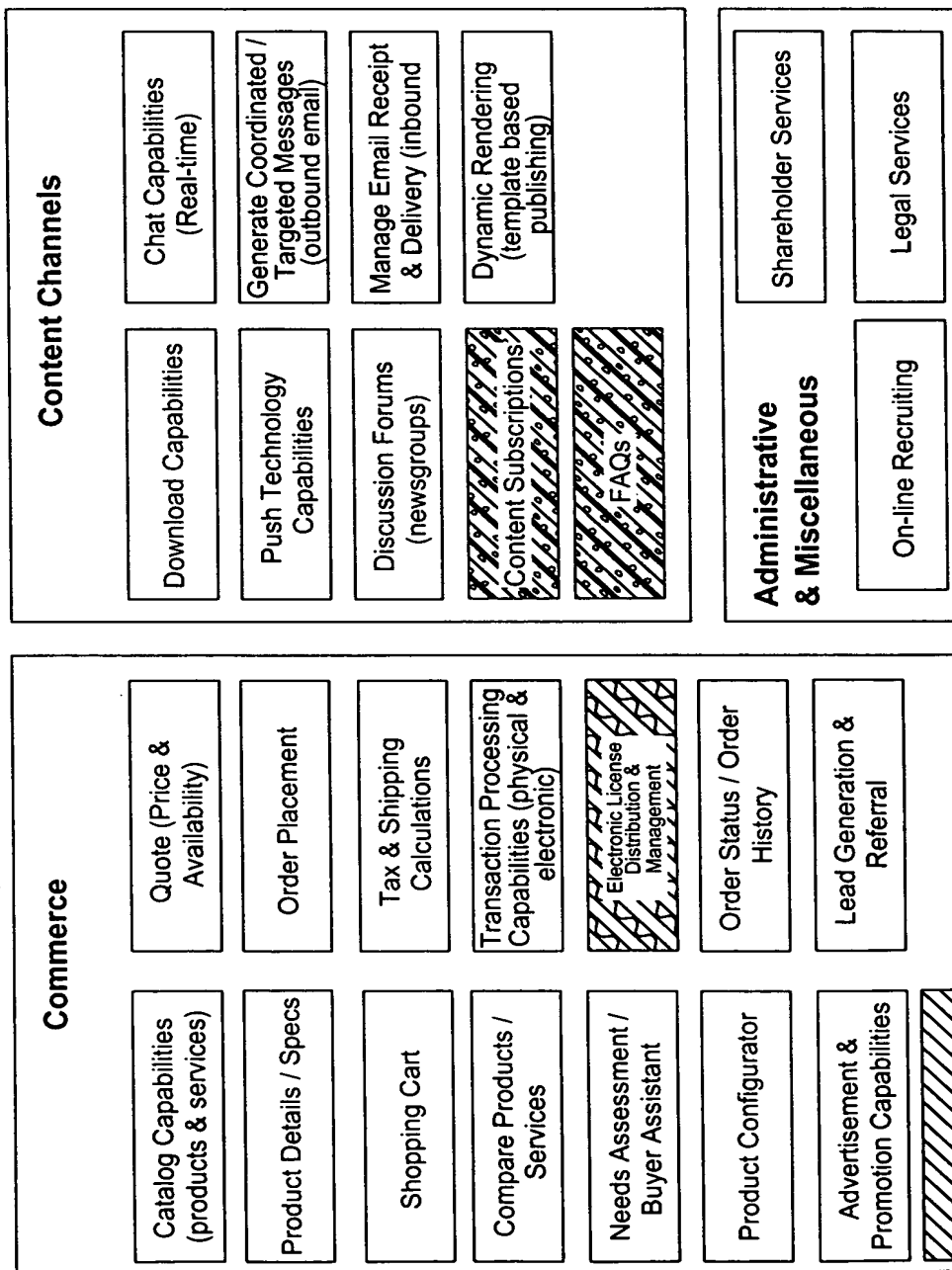


Fig. 25C

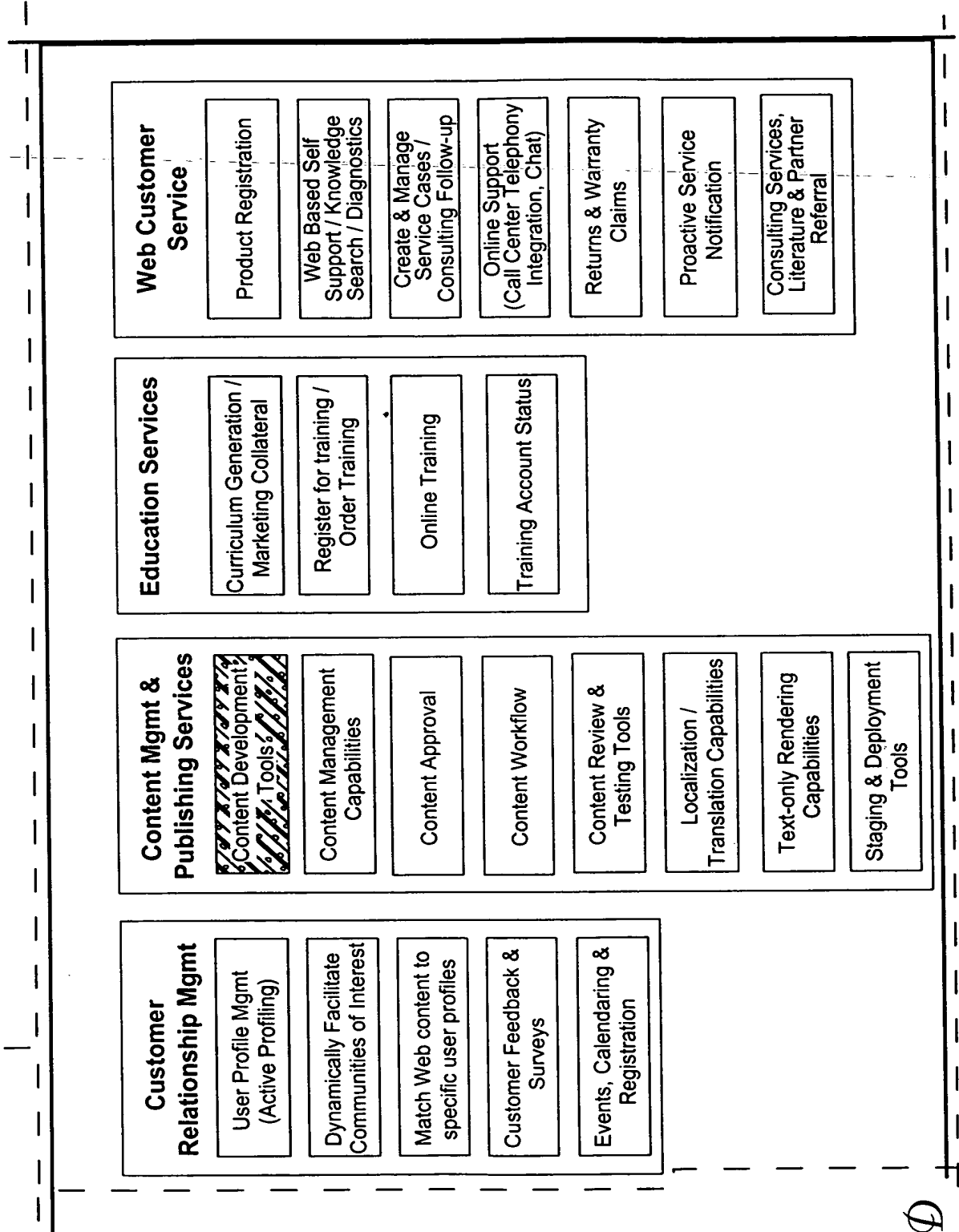


Fig. 25D

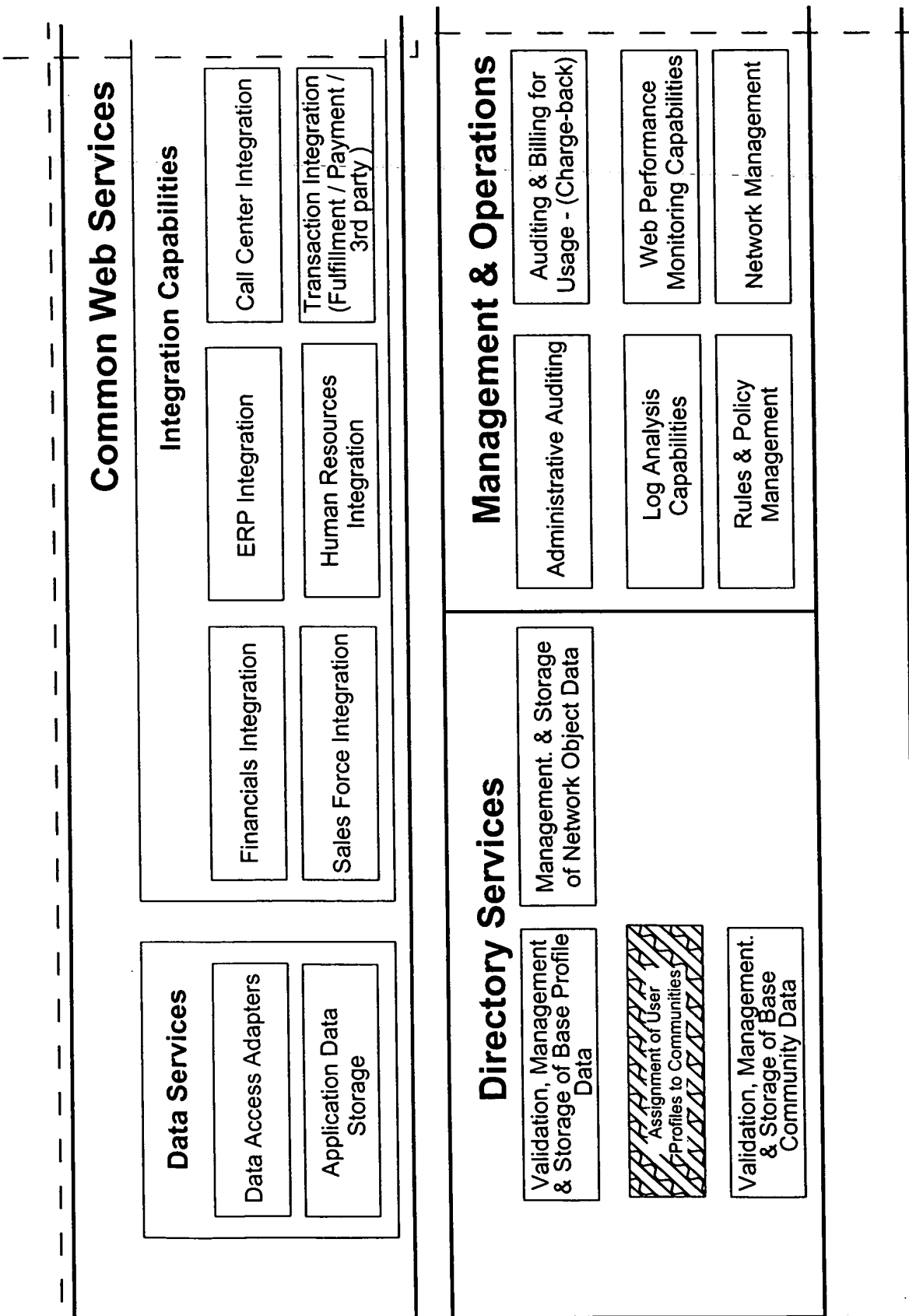


Fig. 25E

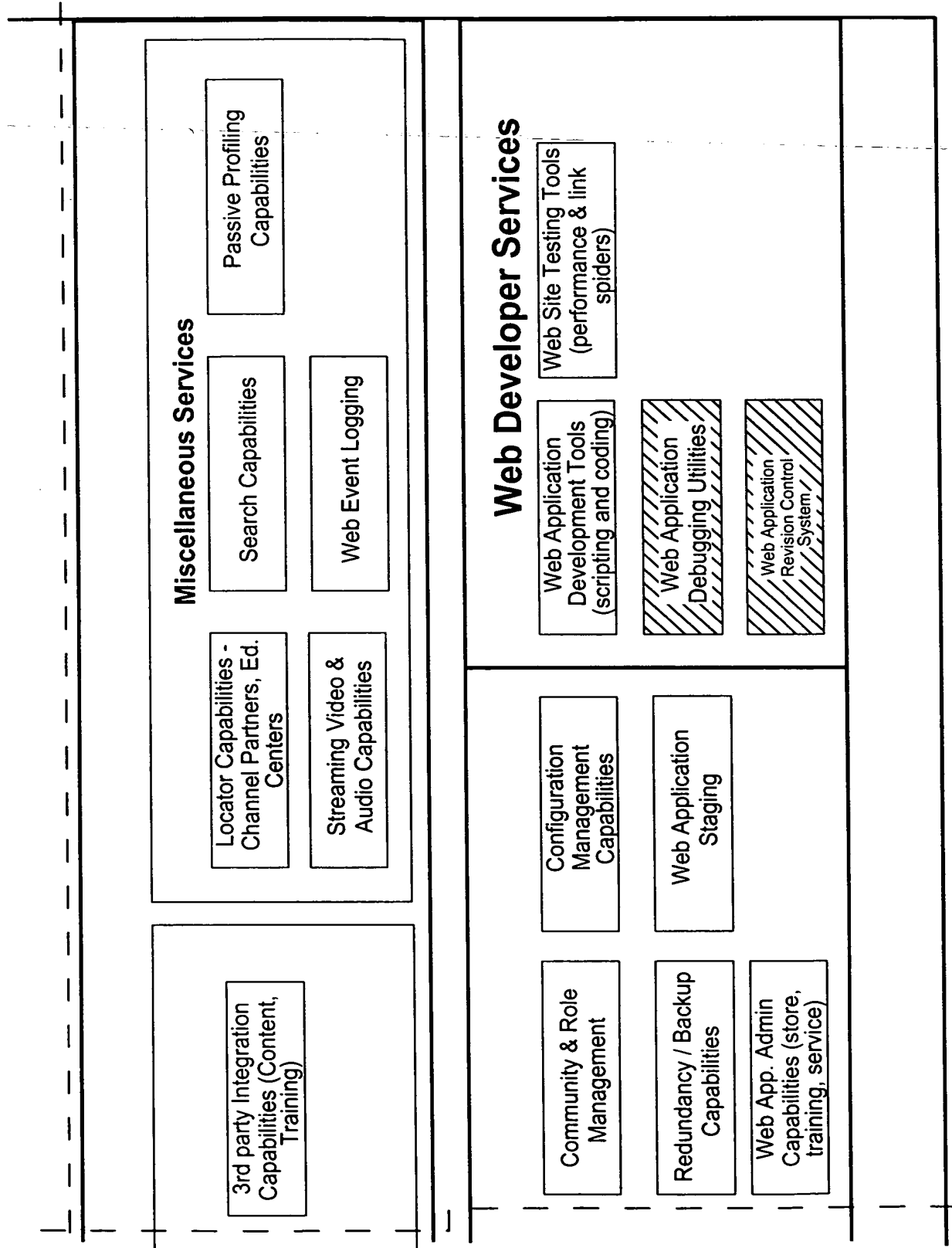


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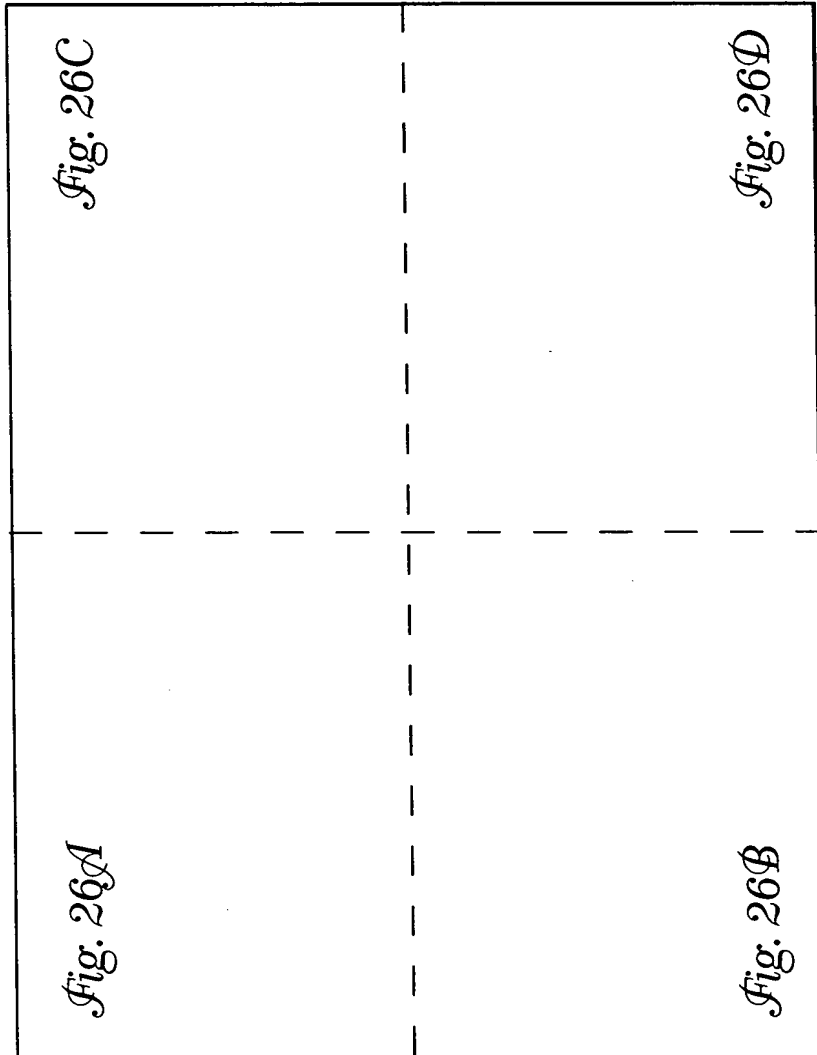


Fig. 26

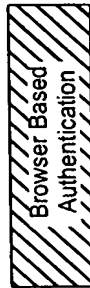


Fig. 26A

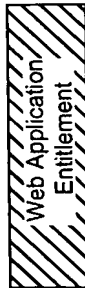
Core Commerce Capabilities - Infrastructure Services

Core Capabilities

Existing Capabilities



- ☐ Verifies user identity using built-in browser functionality
- ☐ Maintains authentication information throughout sessions
- ☐ Utilizes centralized directory of profiles
- ☐ Provides LDAP compatibility
- ☐ Provides NDS Compatibility



- ☐ Restricts access to specific web applications based upon user privileges
- ☐ Determines if a user or group of users have permission to perform an operation in a specific application
- ☐ Utilizes centralized directory of profiles for entitlement data
- ☐ Provides LDAP compatibility
- ☐ Provides NDS compatibility



- ☐ Restricts access to web content and data based upon user privileges
- ☐ Determines if a user or group of users have permission to manipulate web data (create, read, update, delete)
- ☐ Utilizes centralized directory of profiles for entitlement data
- ☐ Provides LDAP compatibility
- ☐ Provides NDS compatibility

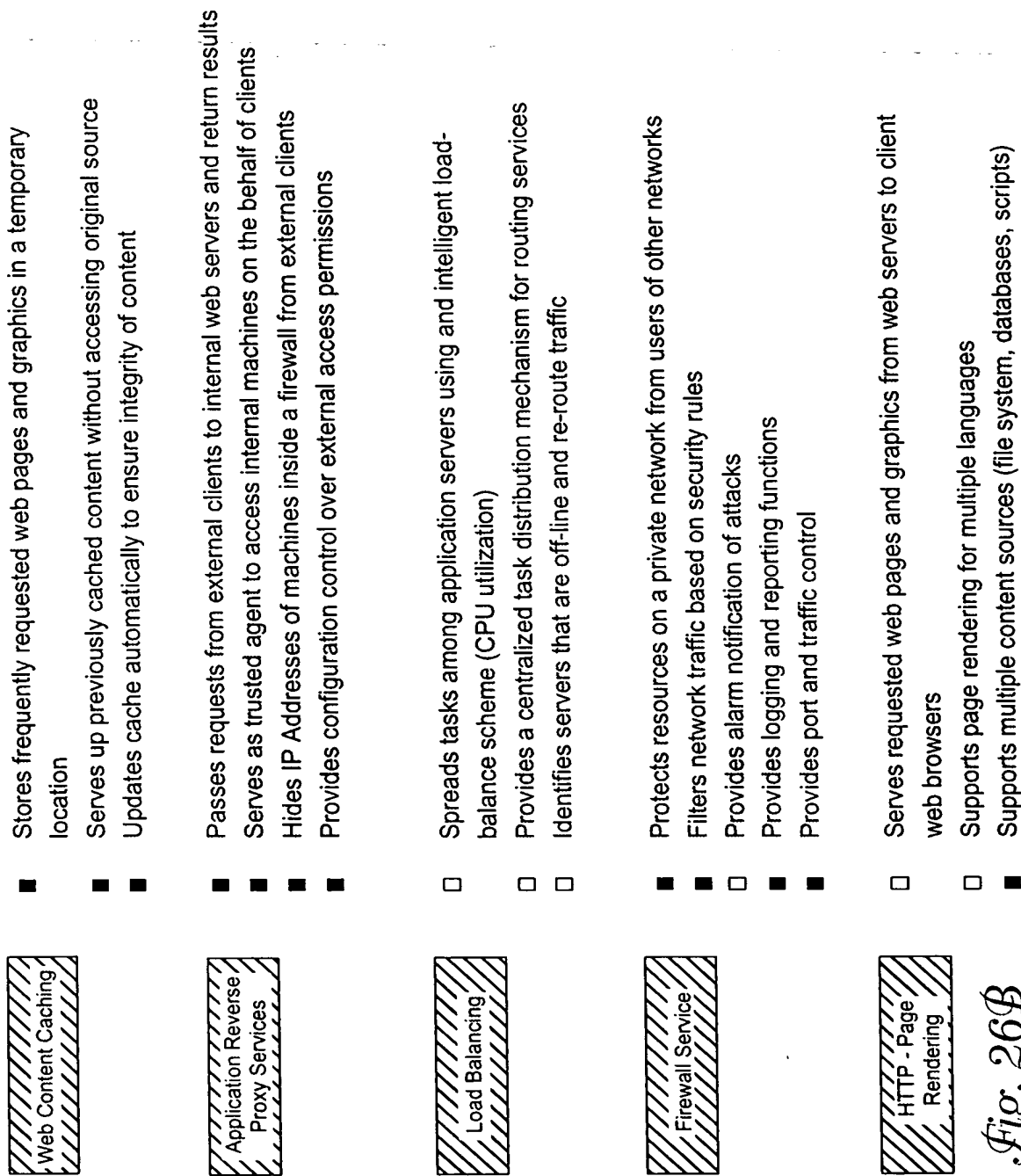


Fig. 26B

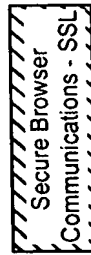


Fig. 26C

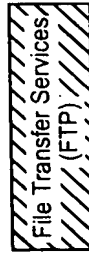
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Core Capabilities

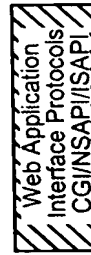
Existing Capabilities



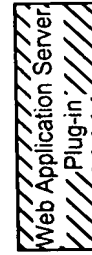
- Provides encrypted communication with common web browsers
- Supports the Secure Sockets Layer protocol 2.0
- Supports the Secure Sockets Layer protocol 3.0



- Transfers files between computers on the Internet using the standard File Transfer Protocol (FTP)
- Stores files on a file system or database
- Provides mechanism to manage access control for files on a FTP server



- Supports Common Gateway Interface (CGI) protocol
- Supports Netscape API (NSAPI) protocol
- Supports Microsoft's API (ISAPI) protocol
- Provides alternative to the interface mechanism that may be used



- Executes web application logic
- Utilizes user session information to support interactive applications
- Provides scalability features
- Provides fail-over features
- Provides application programming logic

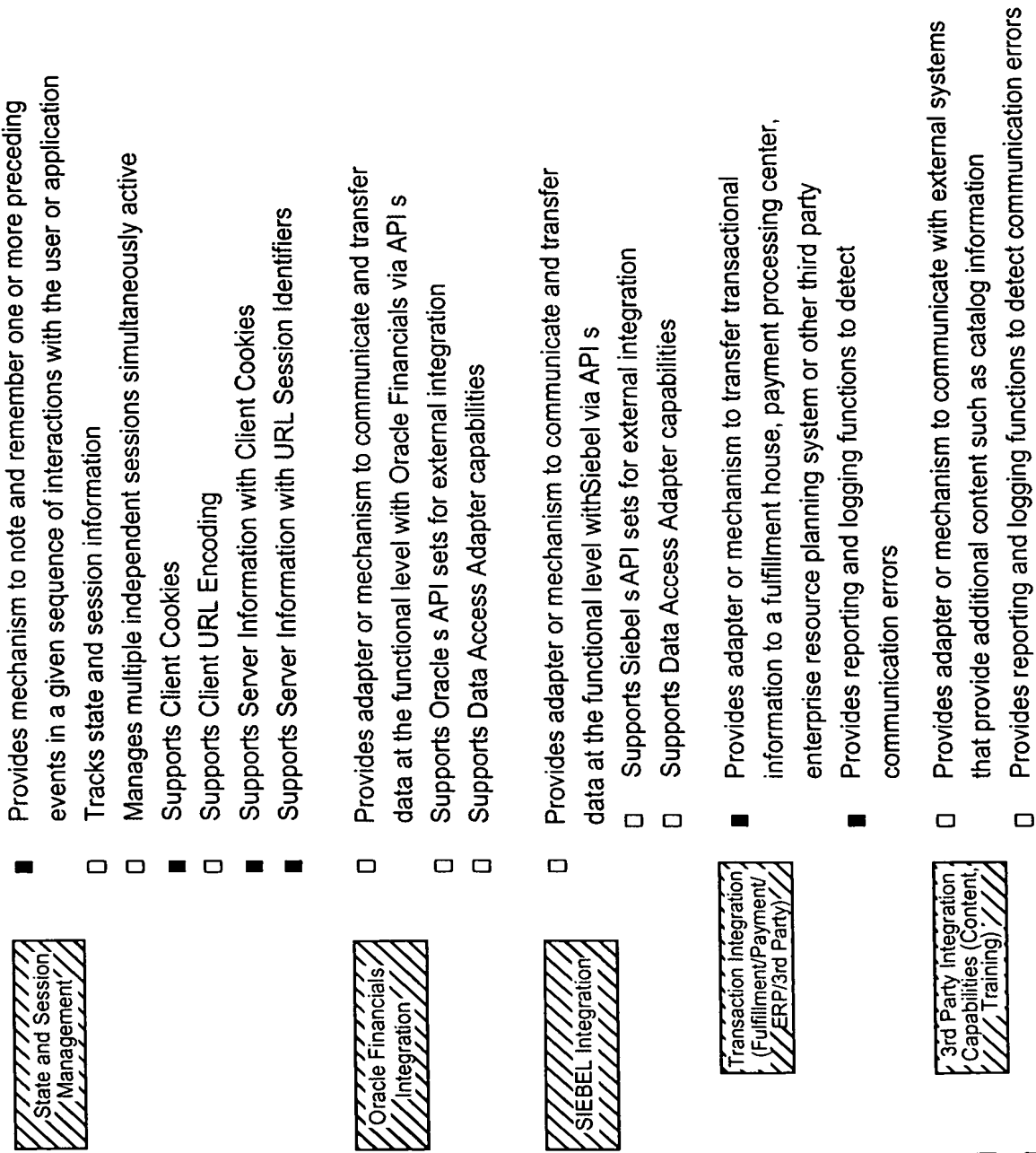


Fig. 26D

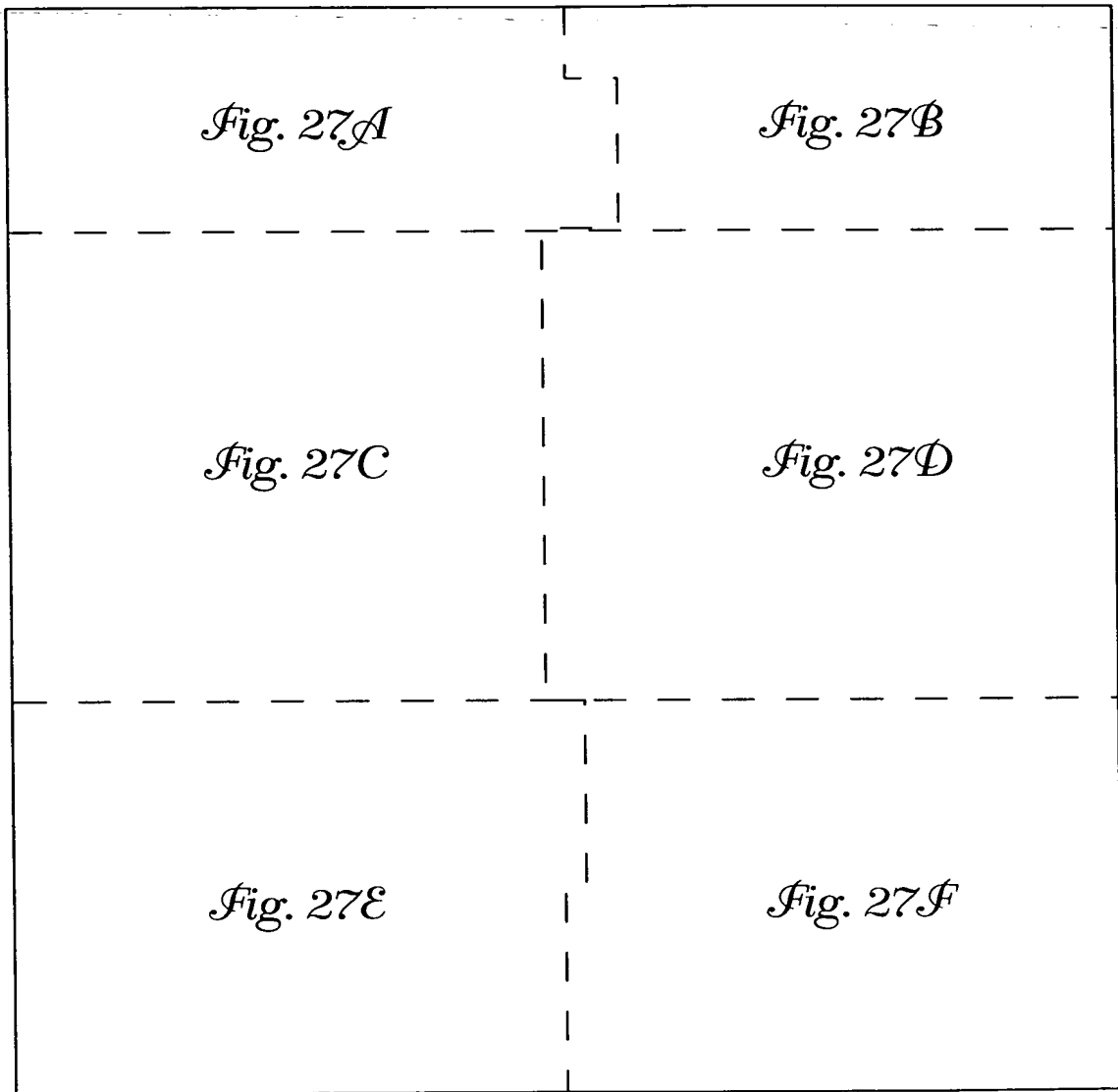


Fig. 27



Business1-Business2-Business3 Alliance Customer Facing Web Architecture Framework

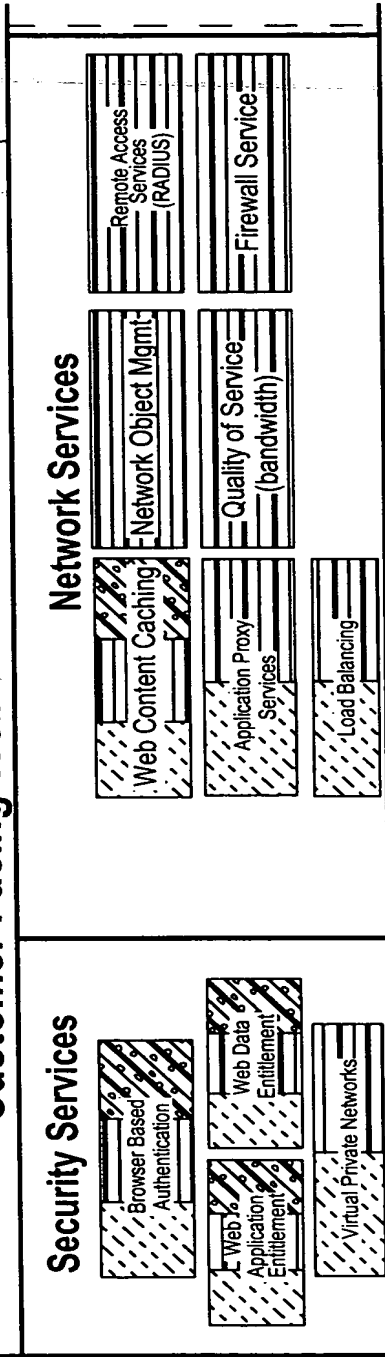


Fig. 27A

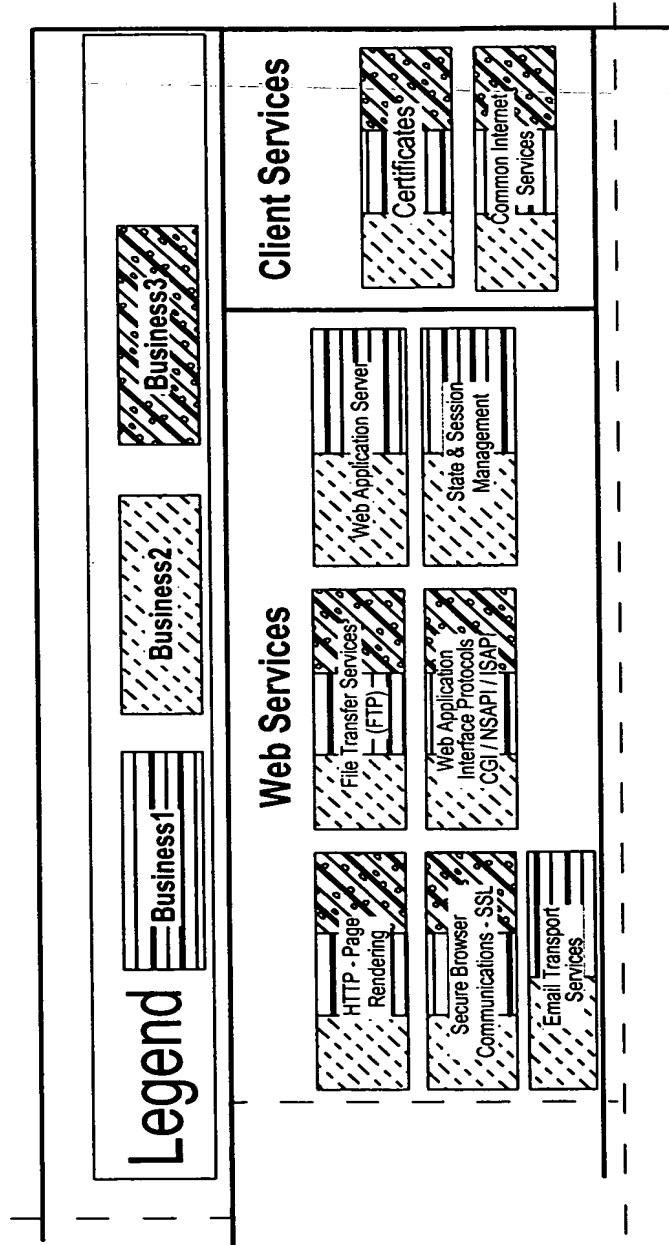


Fig. 27B



Web Application Services

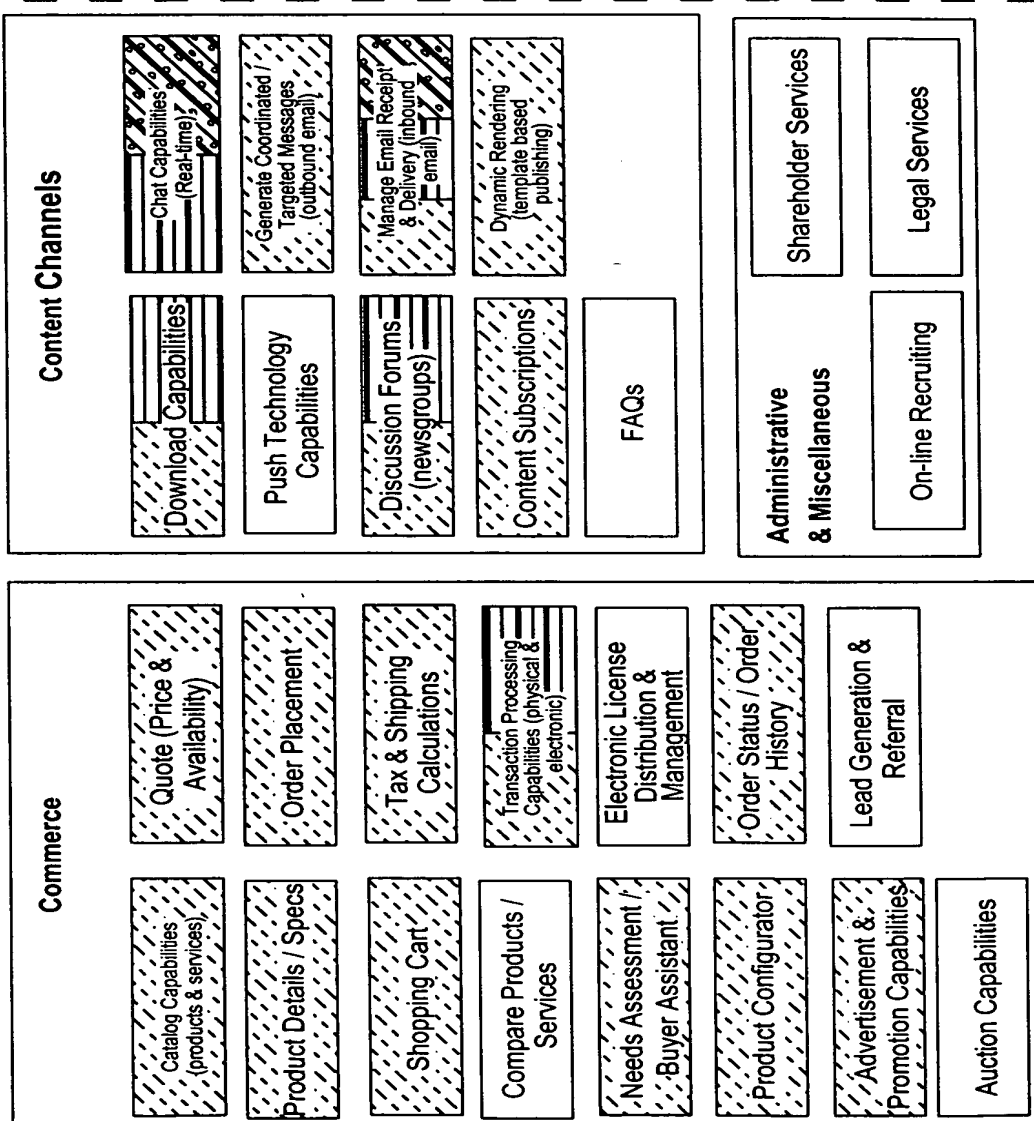


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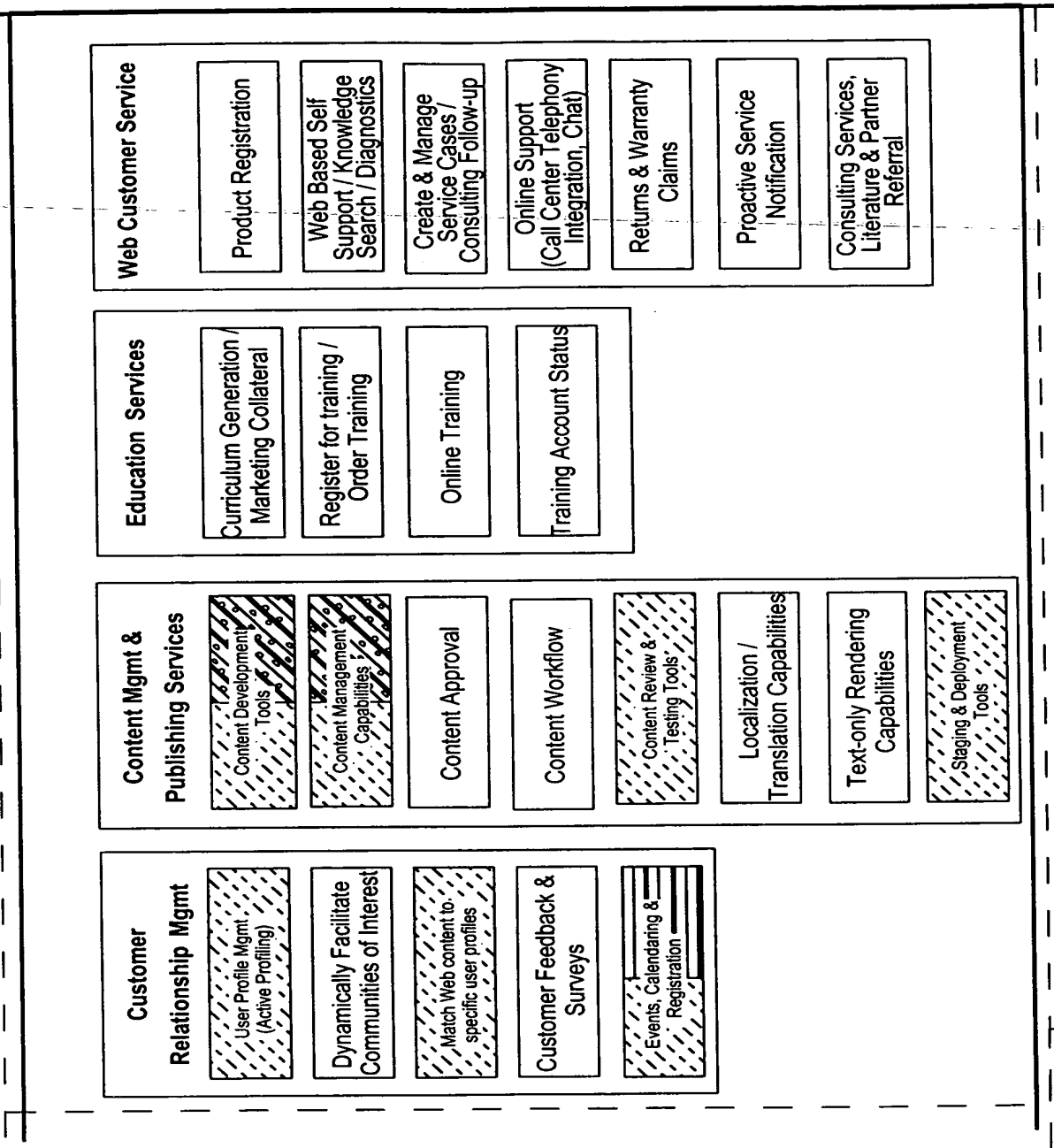


Fig. 27D



Fig. 27E

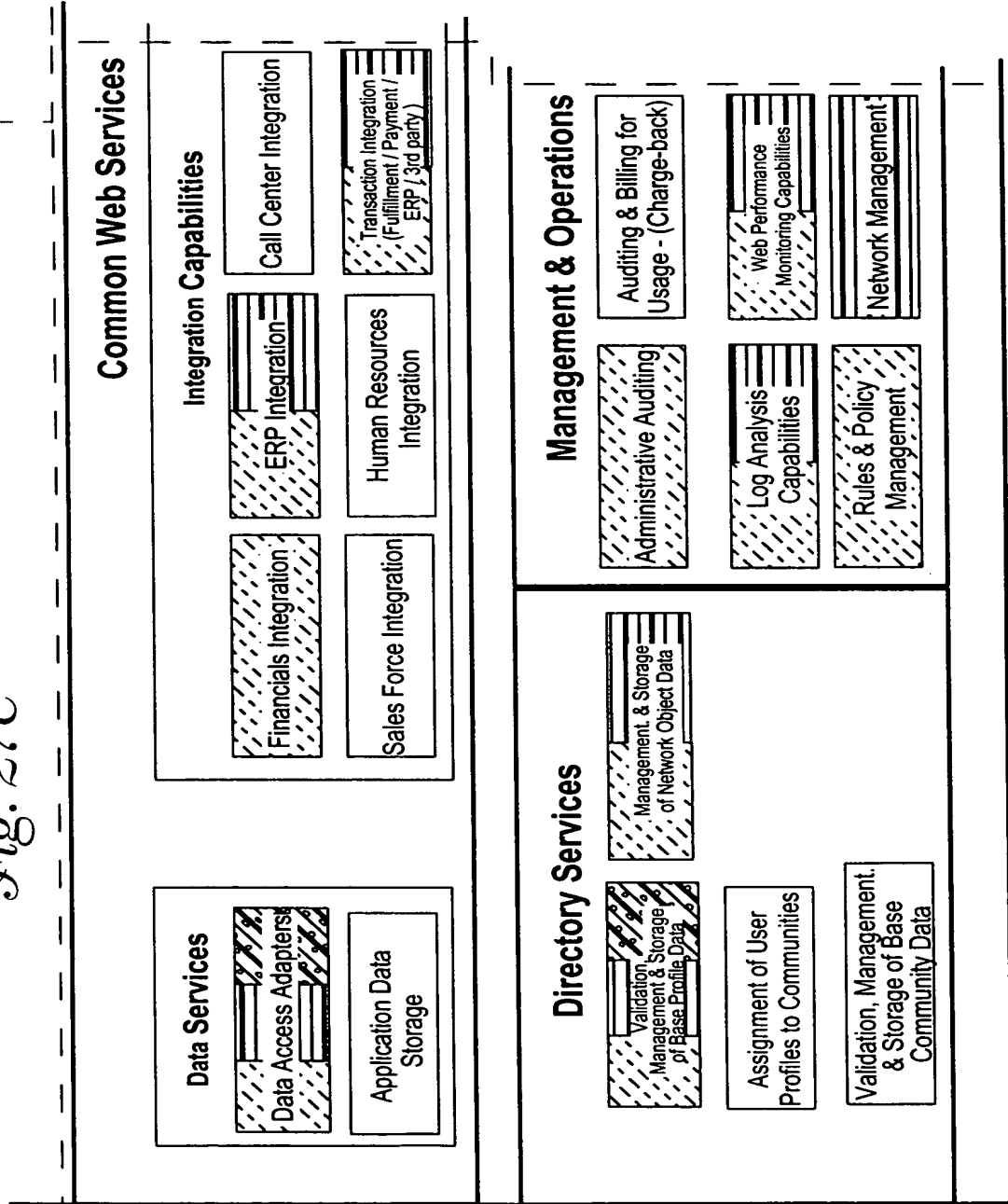
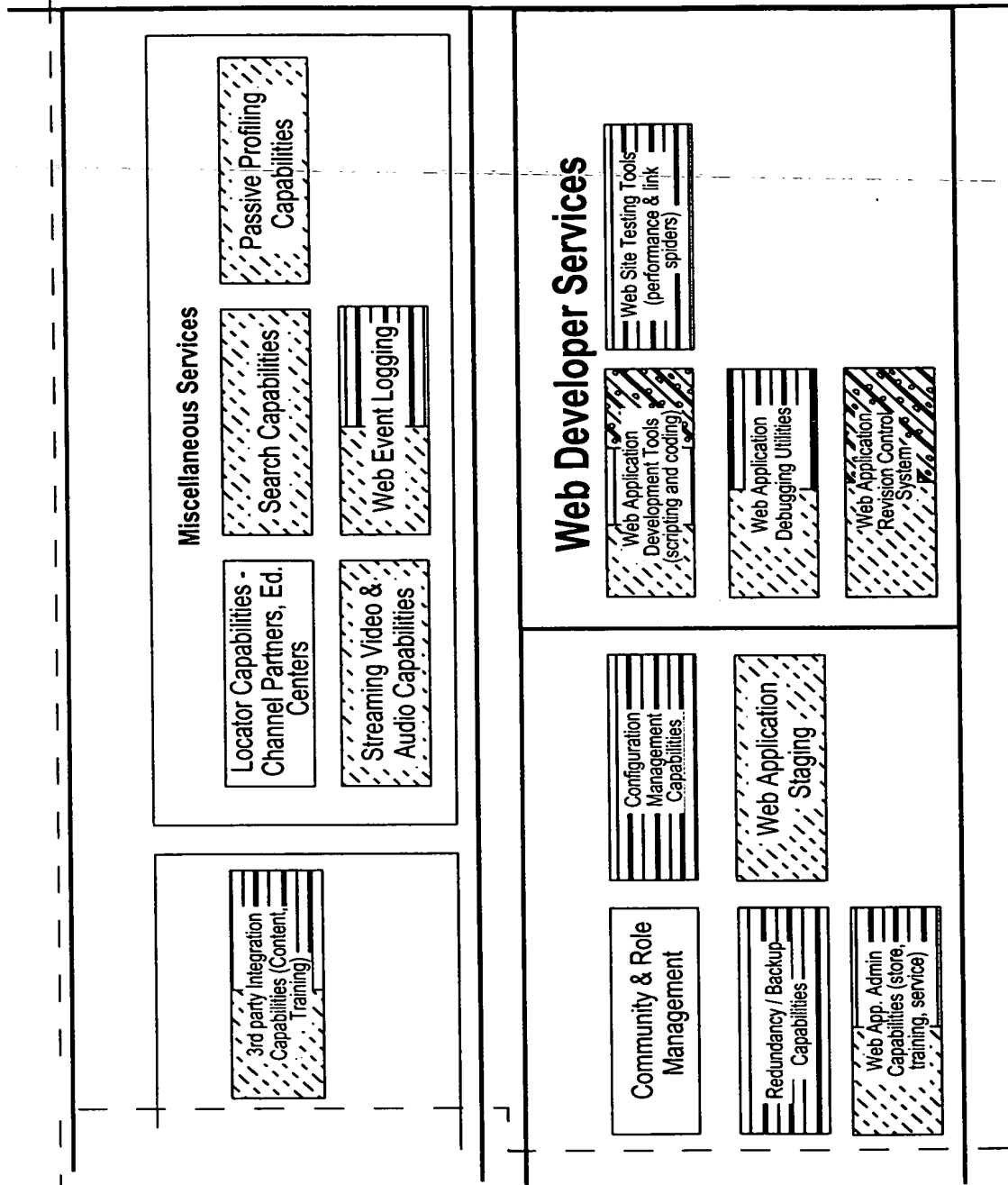




Fig. 27F





Inventor: GUHEEN ET AL.
Docket No.: 8567.108US01
Title: WEB-BASED ARCHITECTURE SALES TOOL (AS AMENDED)
Serial No.: 09/322,073
Sheet 62 of 177

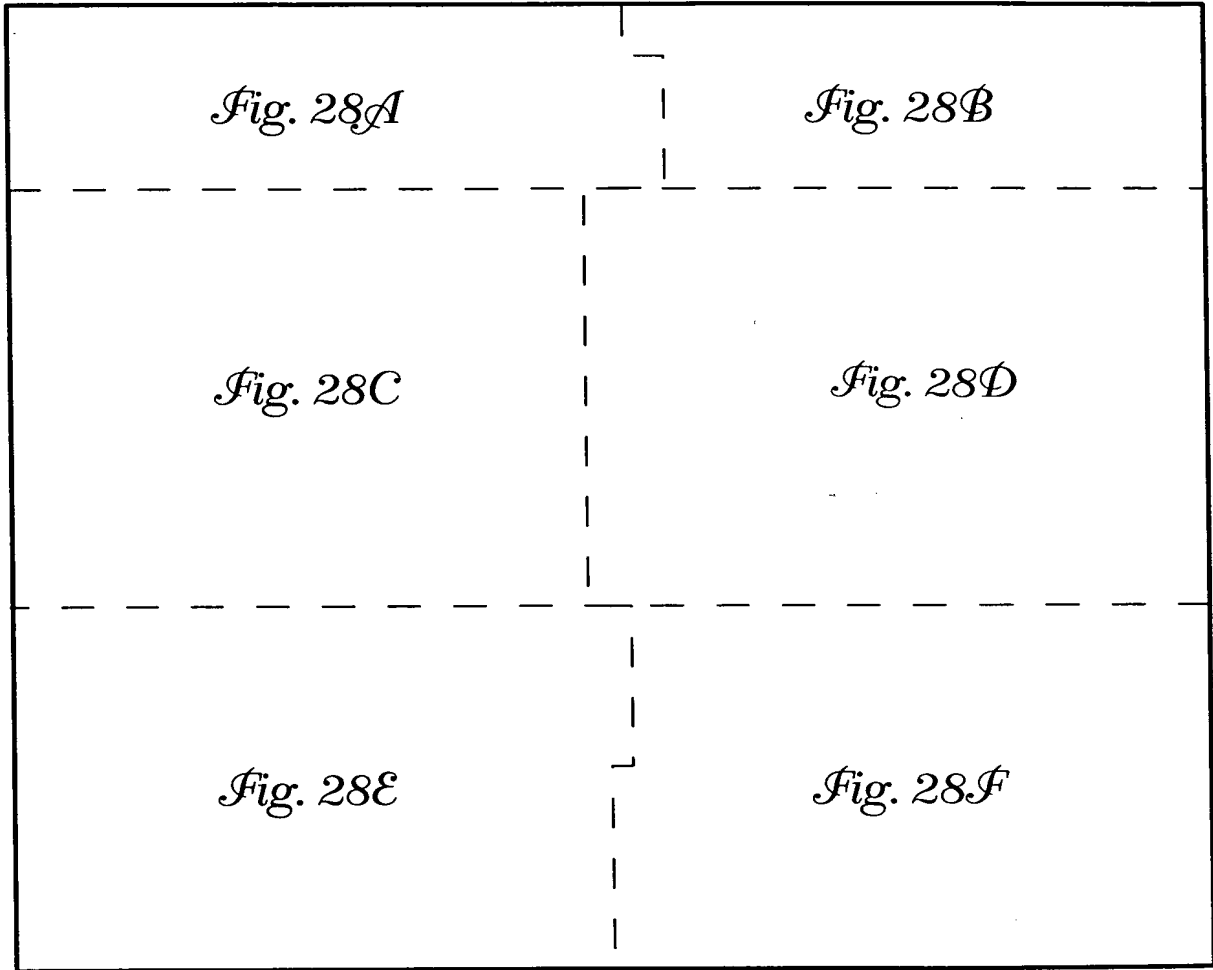


Fig. 28



Business1
Customer Facing Web Architecture Framework

Security Services

Browser Based Authentication

Web Application Entitlement

Web Data Entitlement

Virtual Private Networks

Network Services

Web Content Caching

Network Object Mgmt

Application Proxy Services

Quality of Service (bandwidth)

Load Balancing

Remote Access Services (RADIUS)

Firewall Service

Fig. 28A

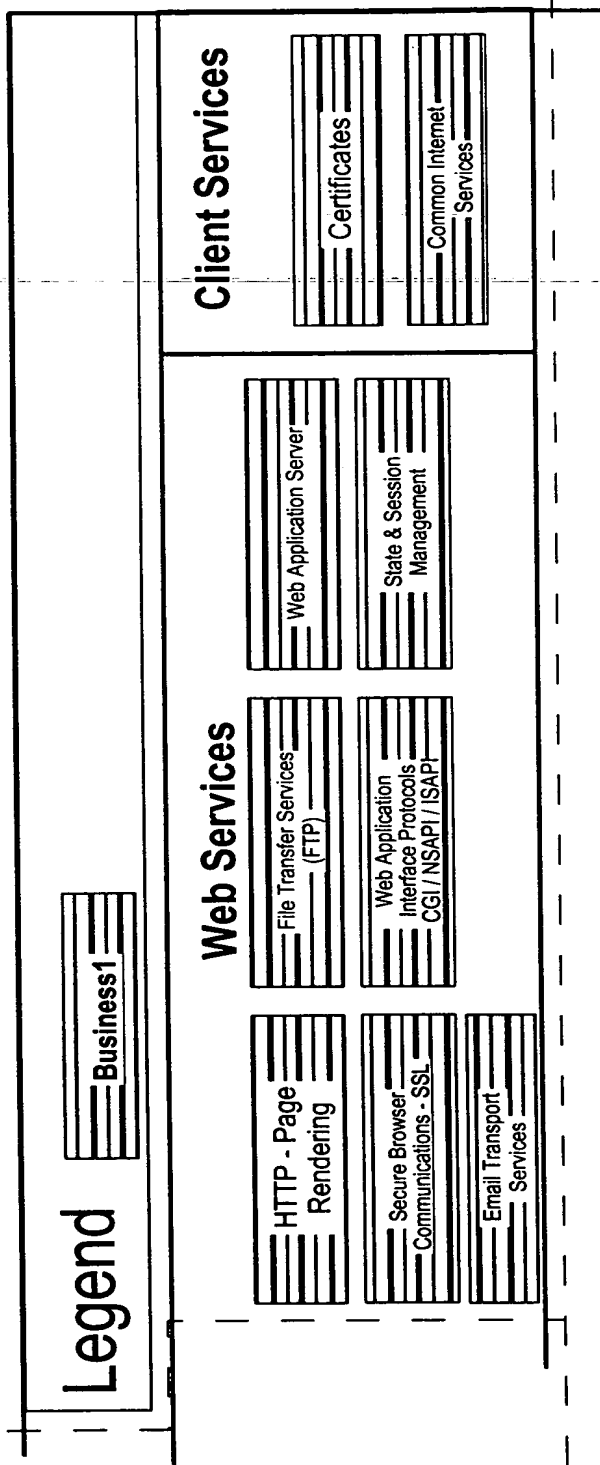


Fig. 28B



Web Application Services

Commerce

Catalog Capabilities
(products & services)

Product Details / Specs

Shopping Cart

Compare Products /
Services

Needs Assessment /
Buyer Assistant

Product Configurator

Advertisement &
Promotion Capabilities

Auction Capabilities

Quote (Price &
Availability)

Order Placement

Tax & Shipping
Calculations

Transaction Processing
Capabilities (physical &
electronic)

Electronic License
Distribution &
Management

Order Status / Order
History

Lead Generation &
Referral

Content Channels

Download Capabilities

Push Technology
Capabilities

Discussion Forums
(newsgroups)

Content Subscriptions

FAQs

Chat Capabilities
(Real-time)

Generate Coordinated /
Targeted Messages
(outbound email)

Manage Email Receipt
& Delivery (inbound
email)

Dynamic Rendering
(template based
publishing)

Administrative & Miscellaneous

On-line Recruiting

Shareholder Services

Legal Services

Fig. 28C

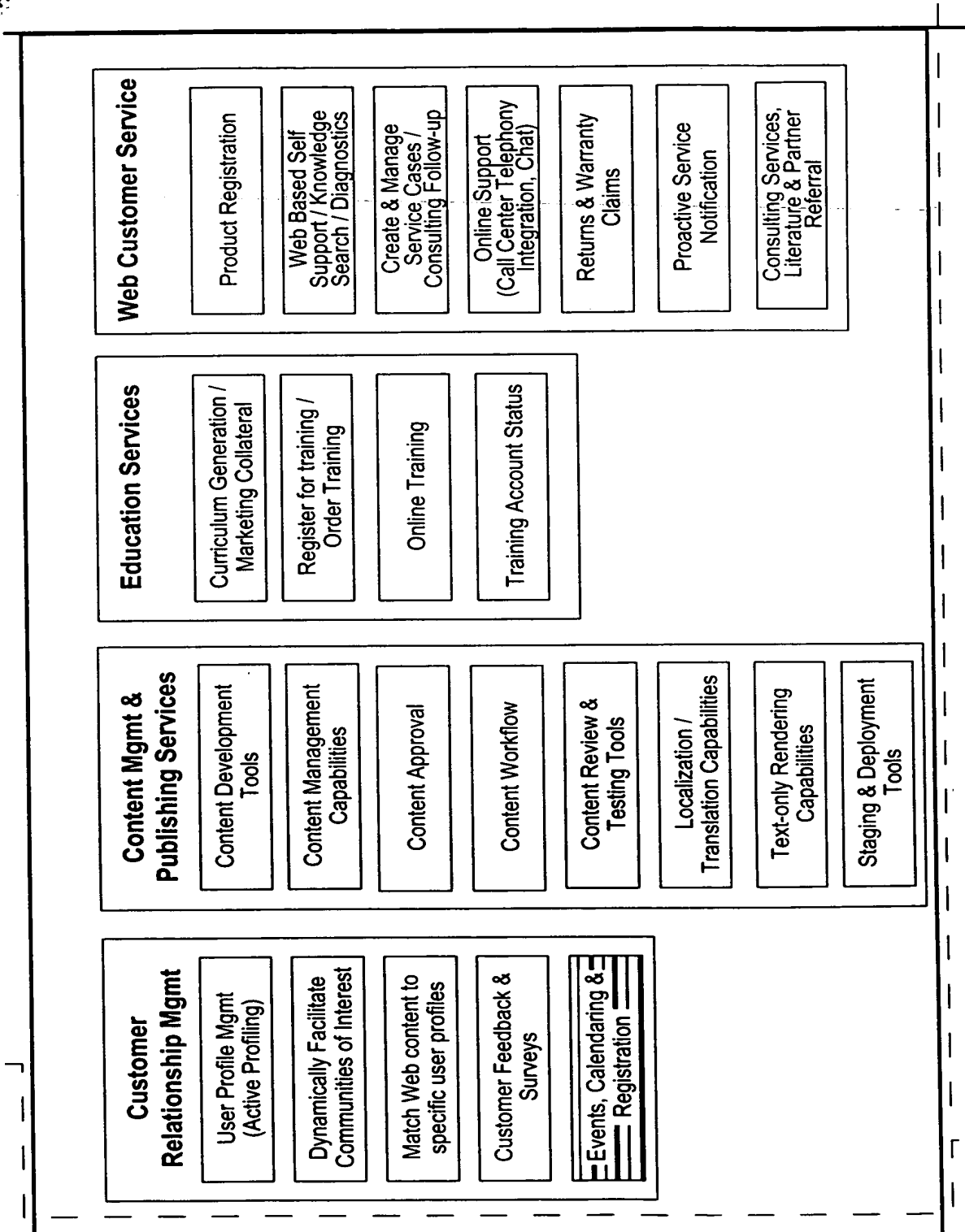


Fig. 28D

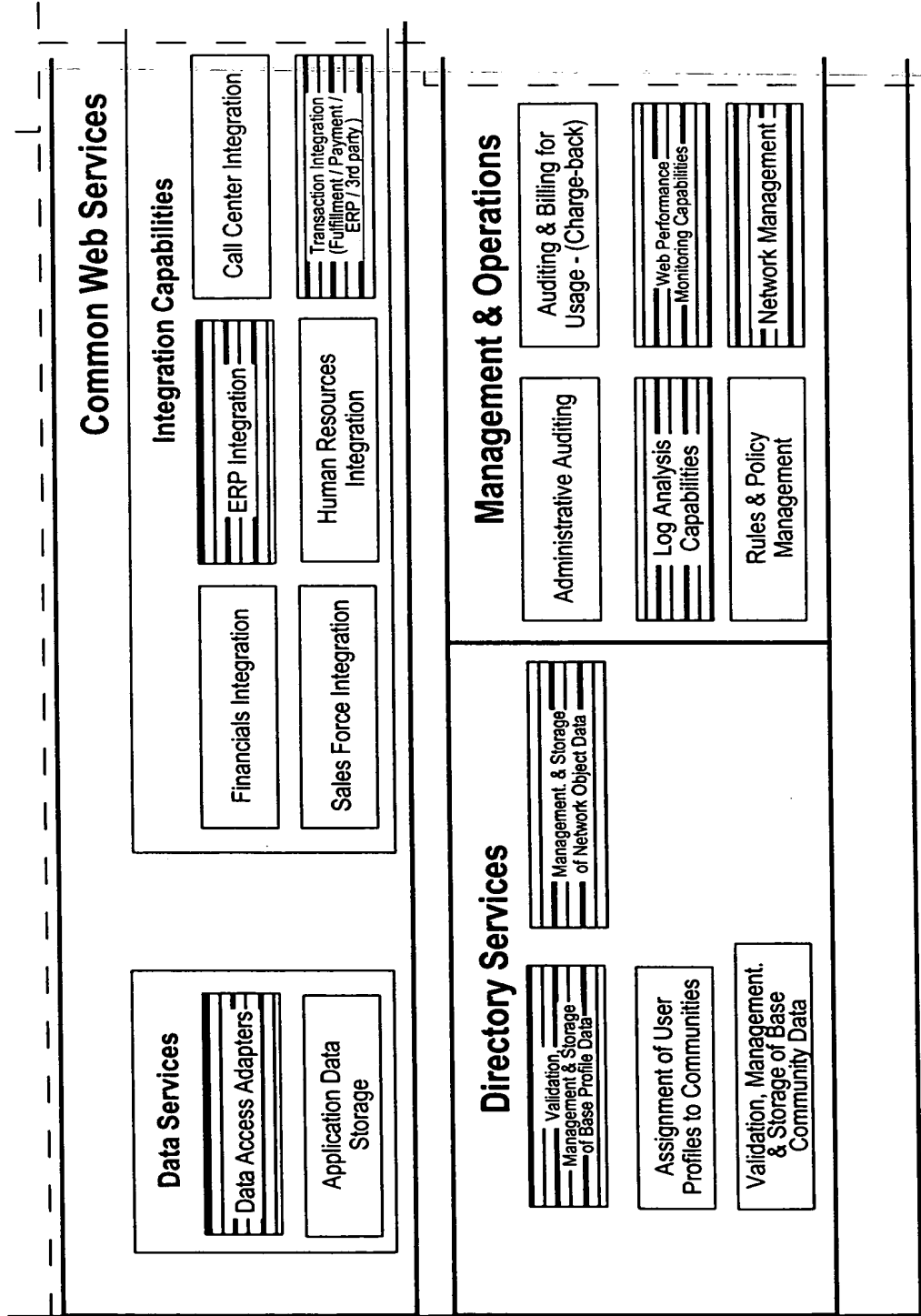


Fig. 28E

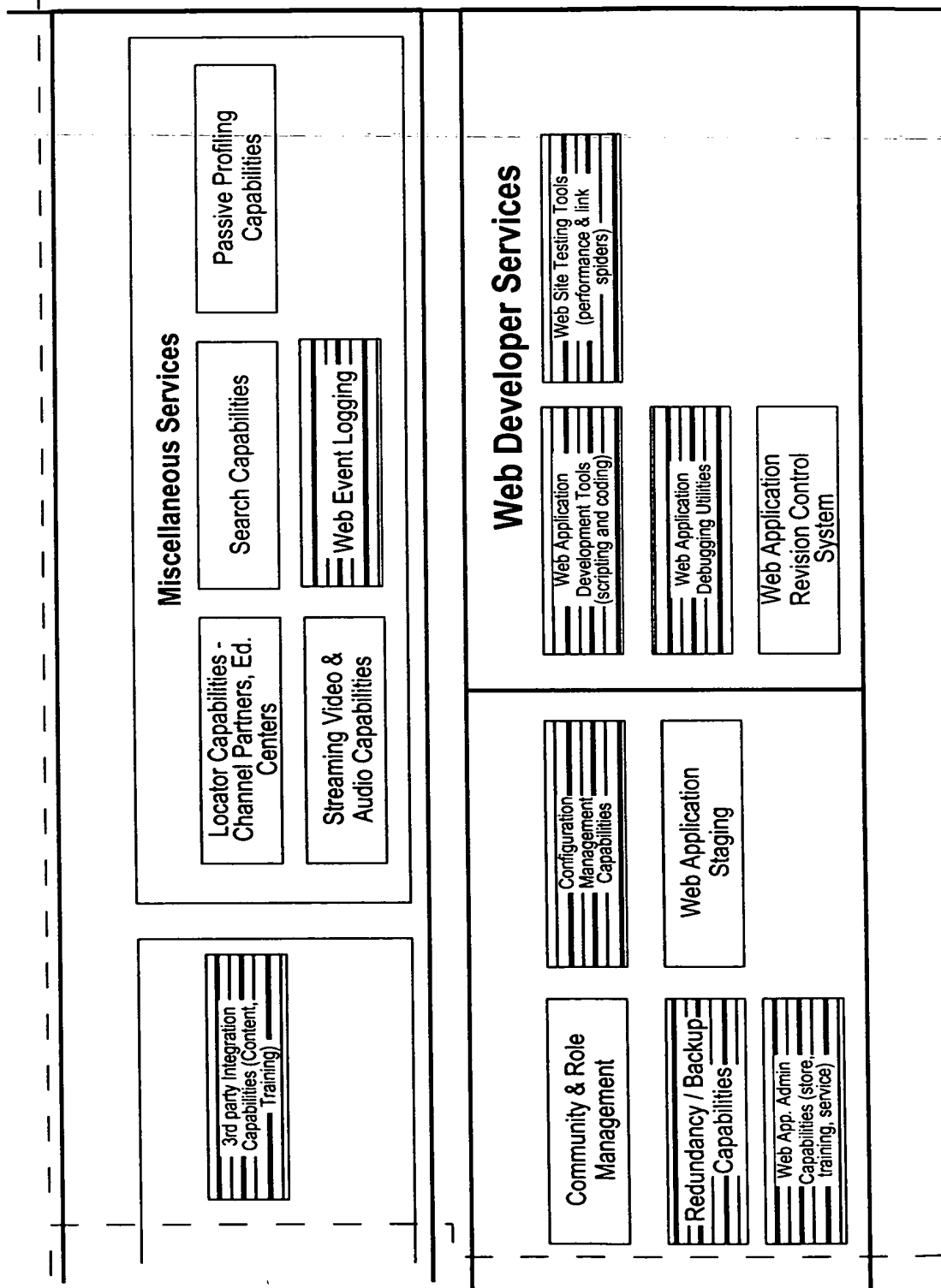


Fig. 28F

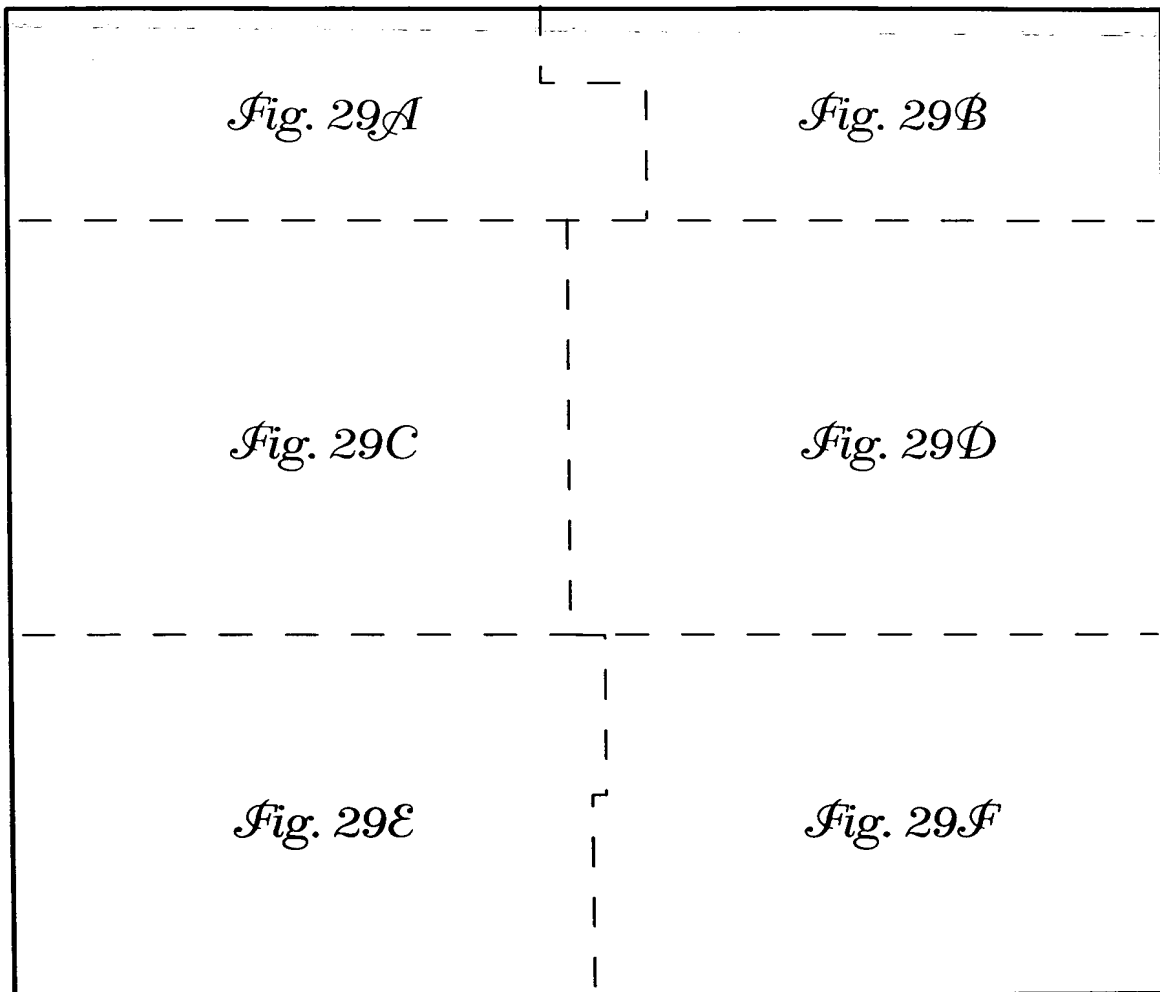


Fig. 29

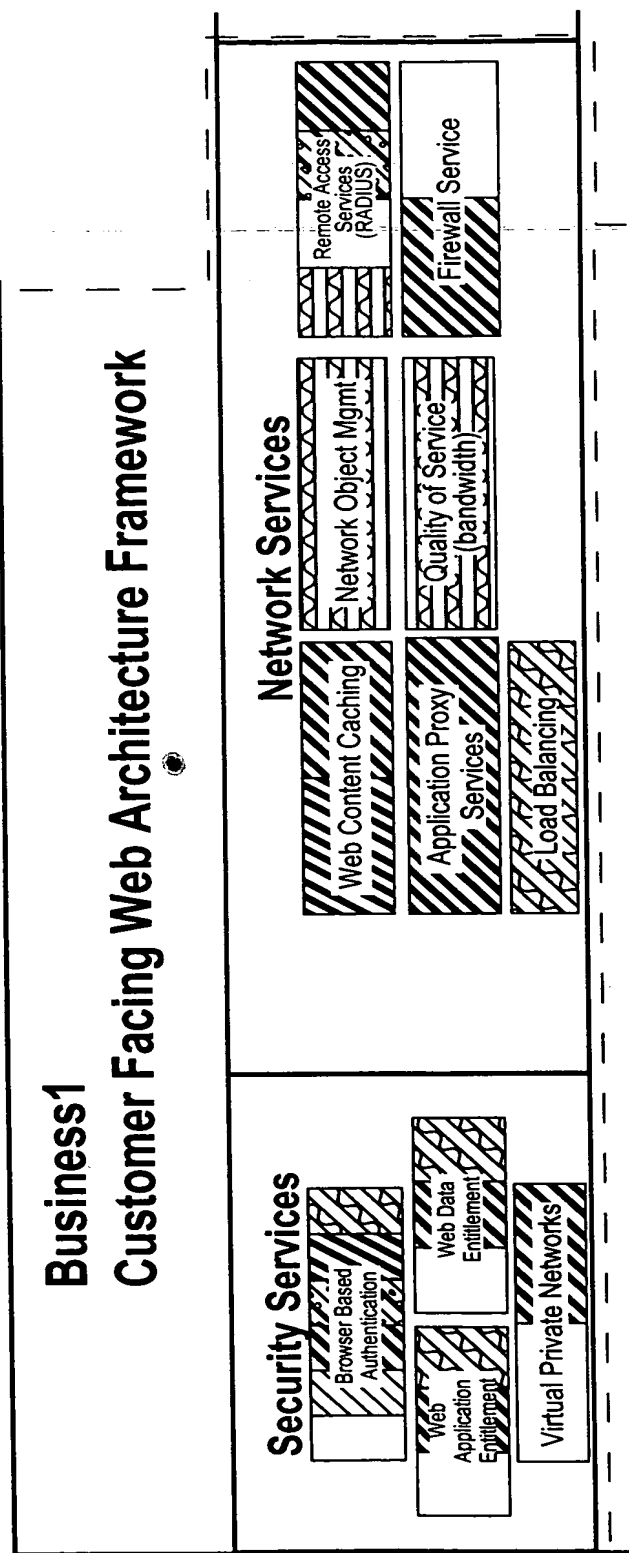


Fig. 29A

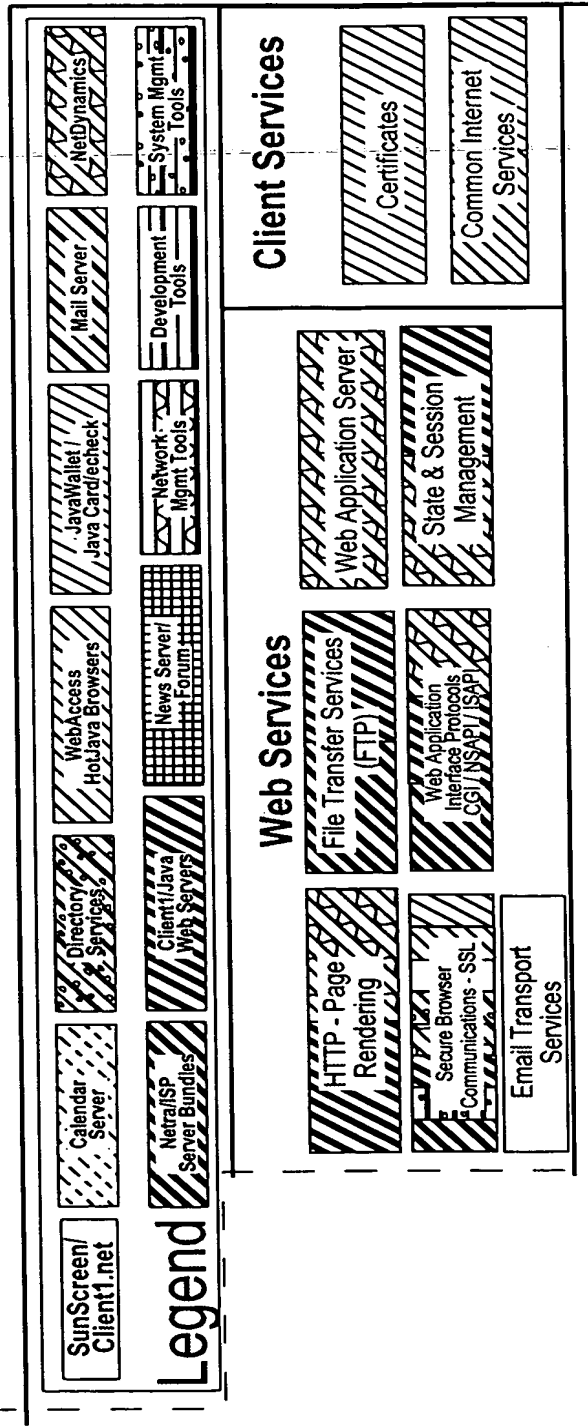


Fig. 29B



Web Application Services

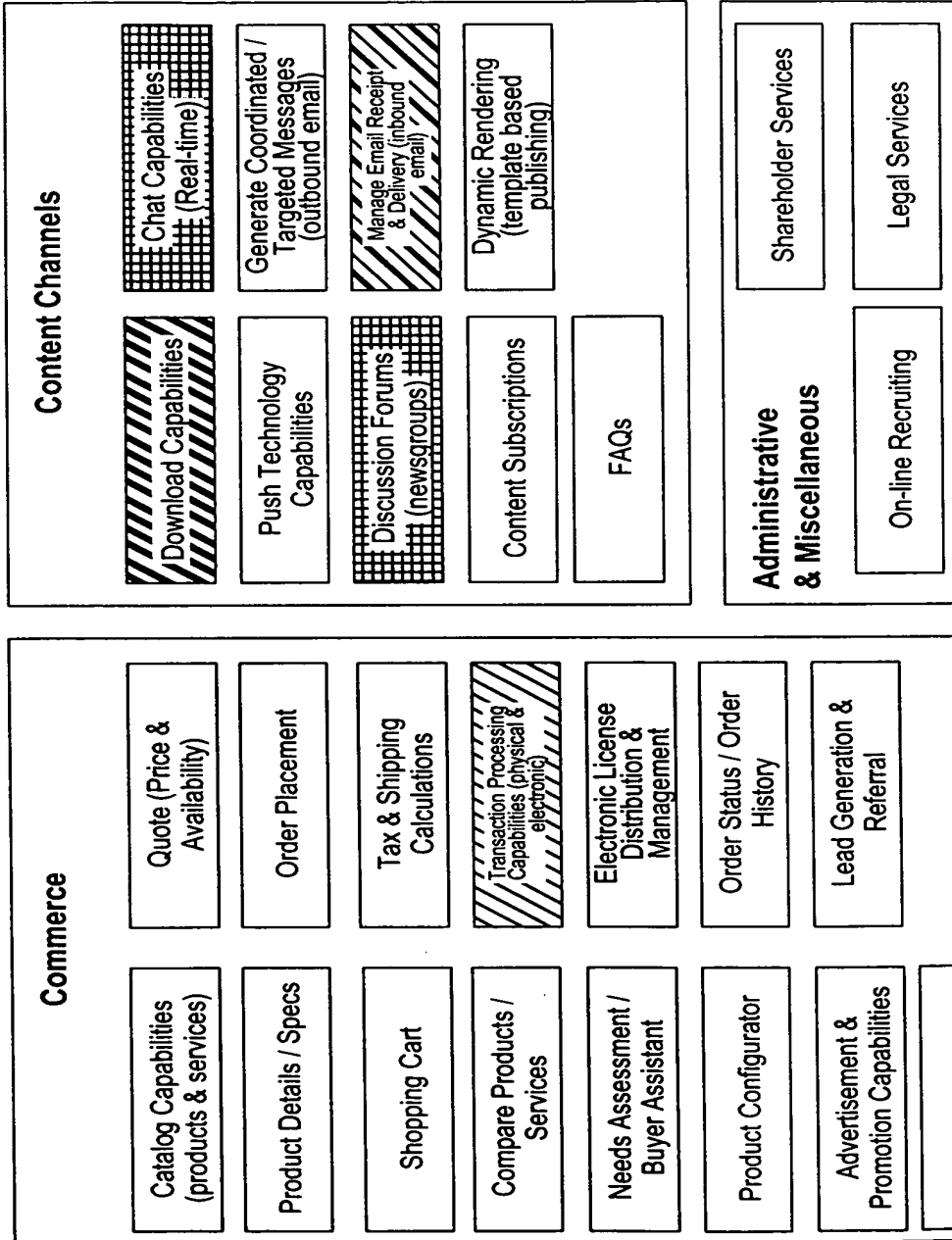


Fig. 29C

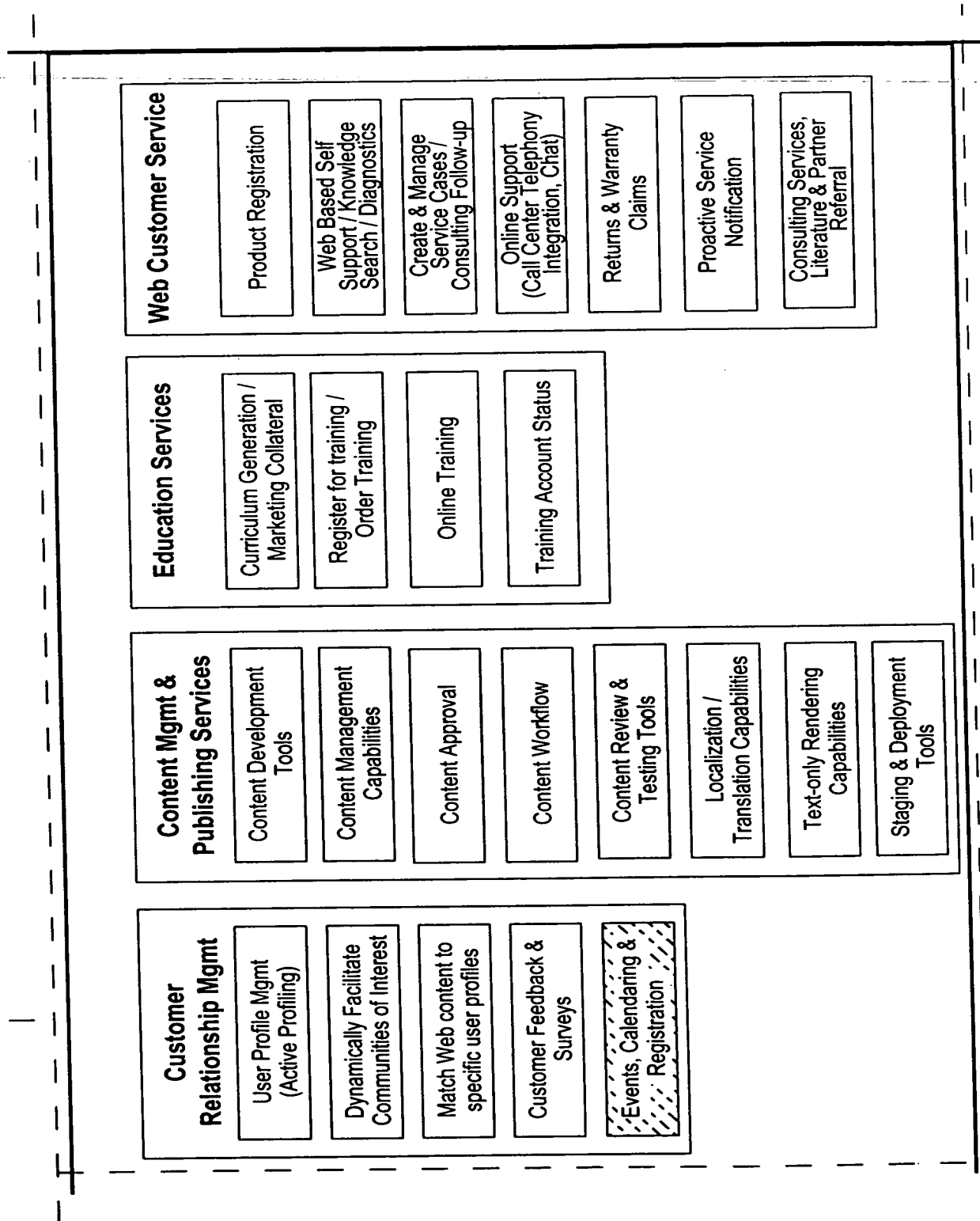


Fig. 29D

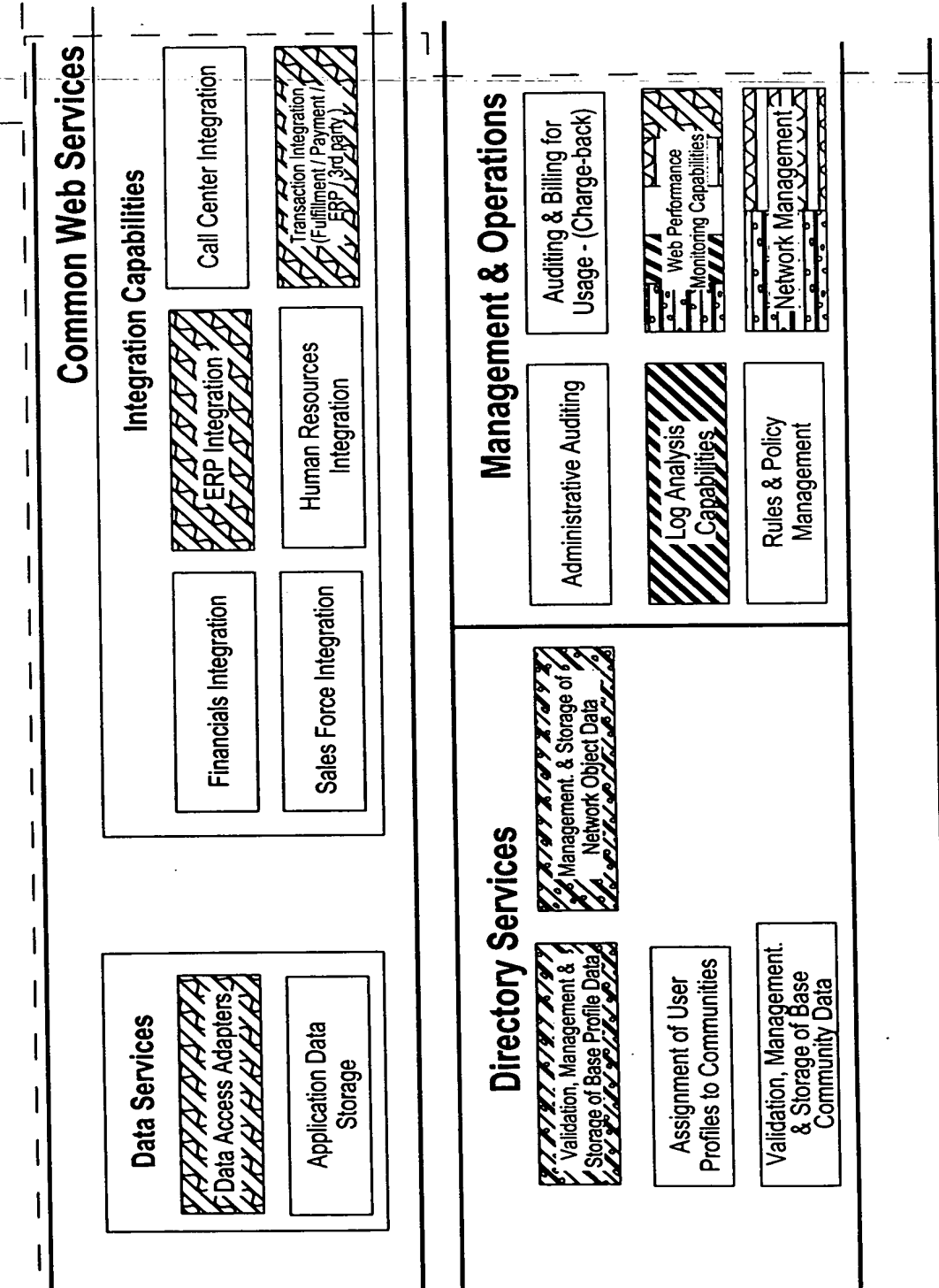


Fig. 29E

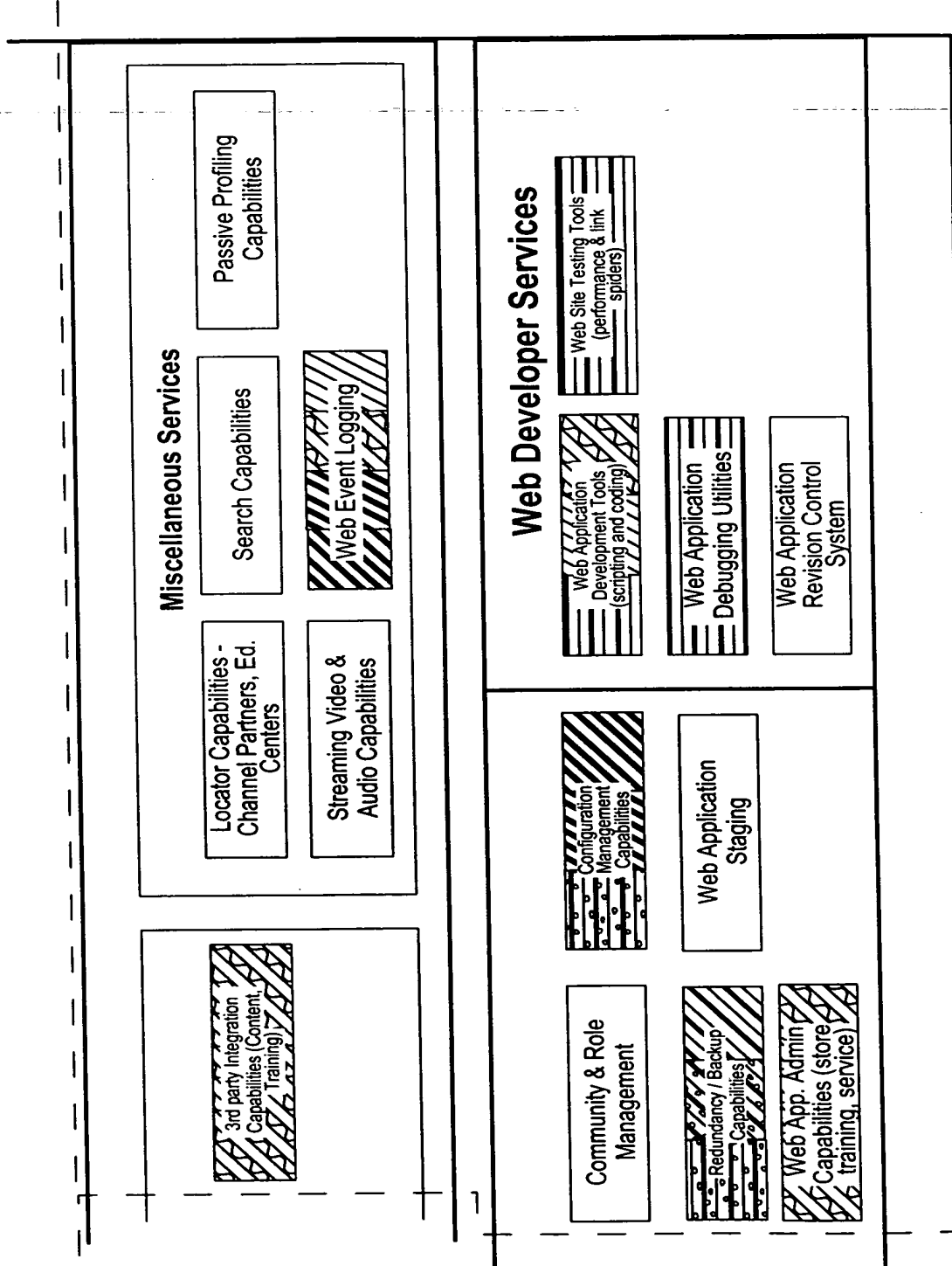


Fig. 29A

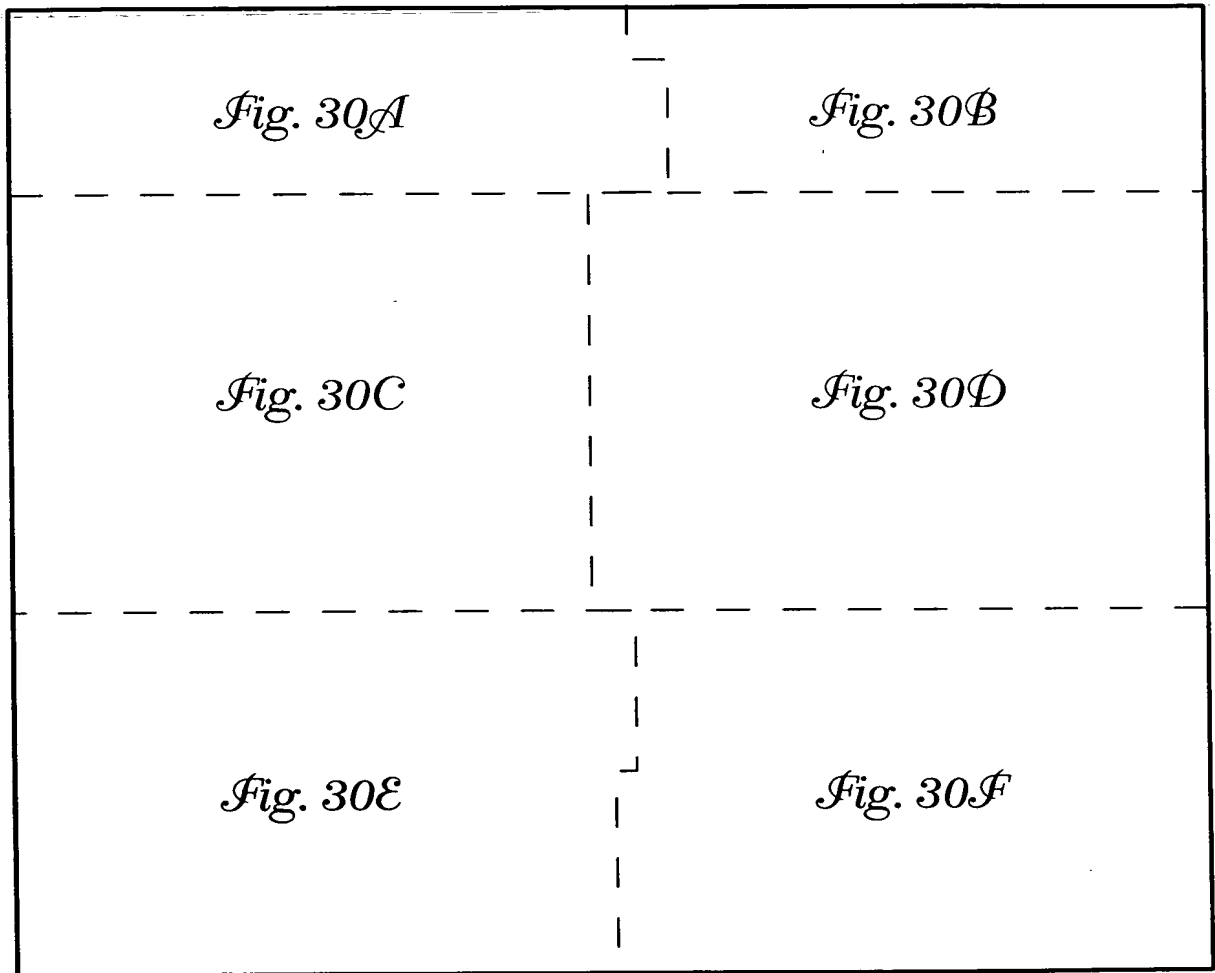


Fig. 30



Business2 Communications Customer Facing Web Architecture Framework

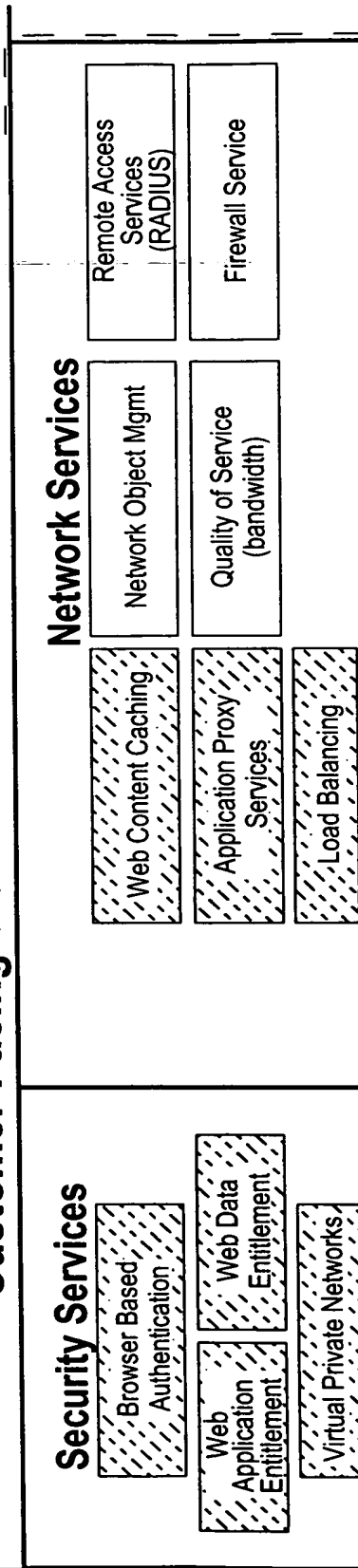


Fig. 30A

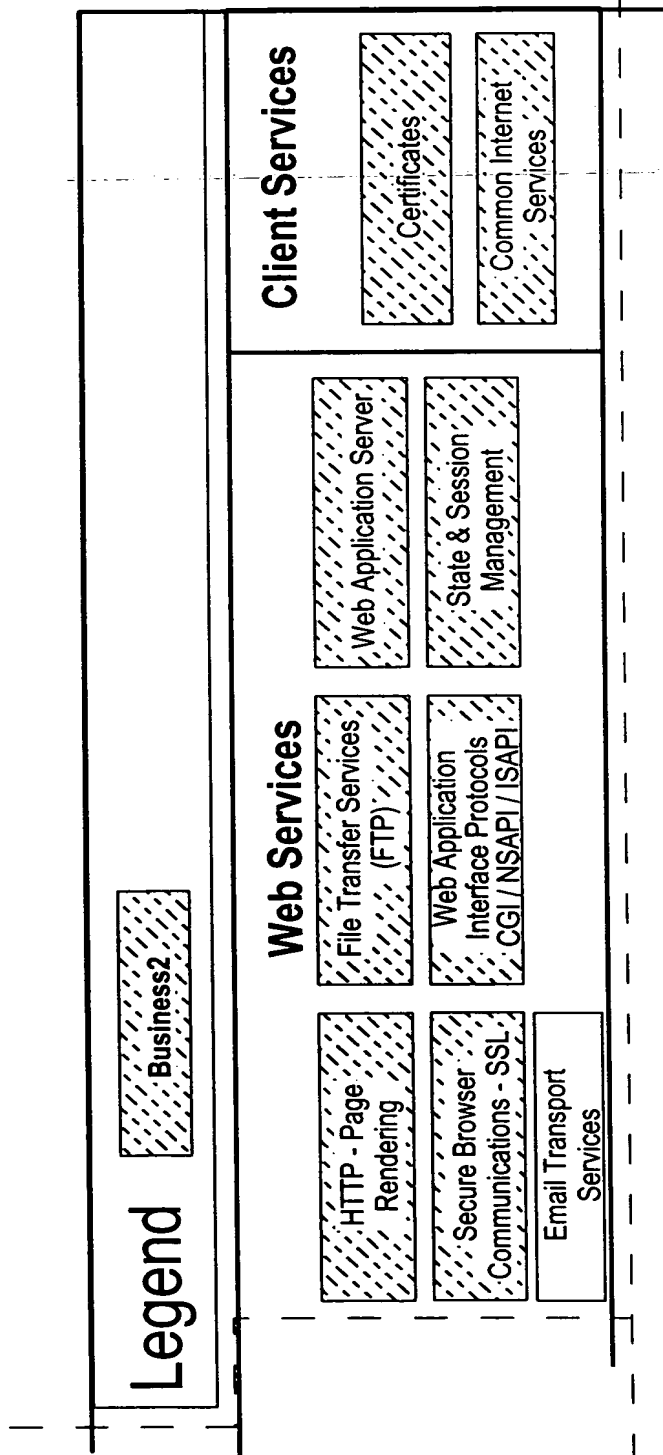


Fig. 30B



Web Application Services

Commerce

Catalog Capabilities
(products & services)

Product Details / Specs

Shopping Cart

Compare Products /
Services

Needs Assessment /
Buyer Assistant

Product Configurator

Advertisement &
Promotion Capabilities

Auction Capabilities

Quote (Price &
Availability)

Order Placement

Tax & Shipping
Calculations

Transaction Processing
Capabilities (physical &
electronic)

Electronic License
Distribution &
Management

Order Status / Order
History

Lead Generation &
Referral

Content Channels

Download Capabilities

Push Technology
Capabilities

Discussion Forums
(newsgroups)

Content Subscriptions

FAQs

Chat Capabilities
(Real-time)

Generate Coordinated /
Targeted Messages
(outbound email)

Manage Email Receipt
& Delivery (inbound
email)

Dynamic Rendering,
(template based
publishing)

Fig. 30C

Administrative & Miscellaneous

Shareholder Services

Legal Services

On-line Recruiting

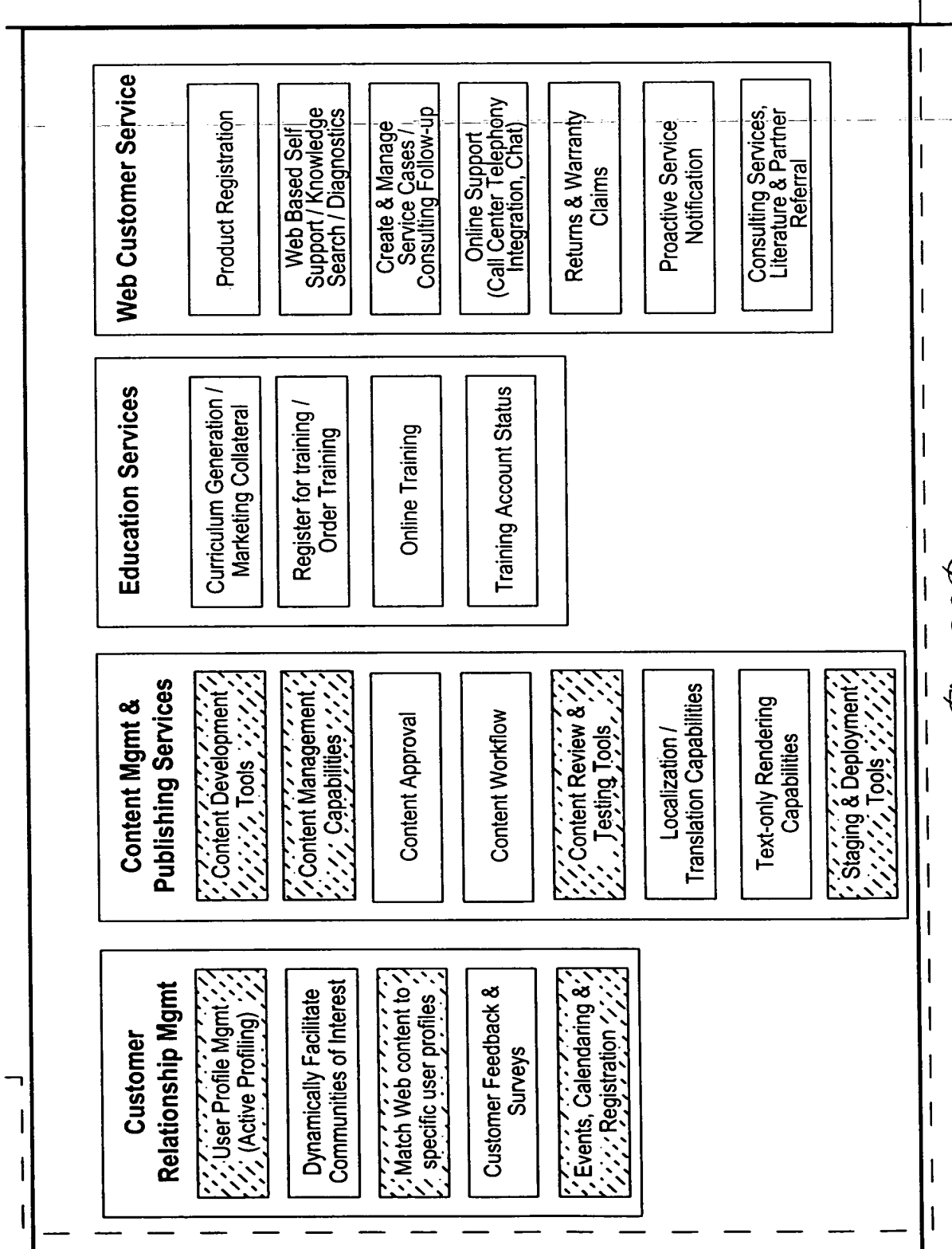


Fig. 30D

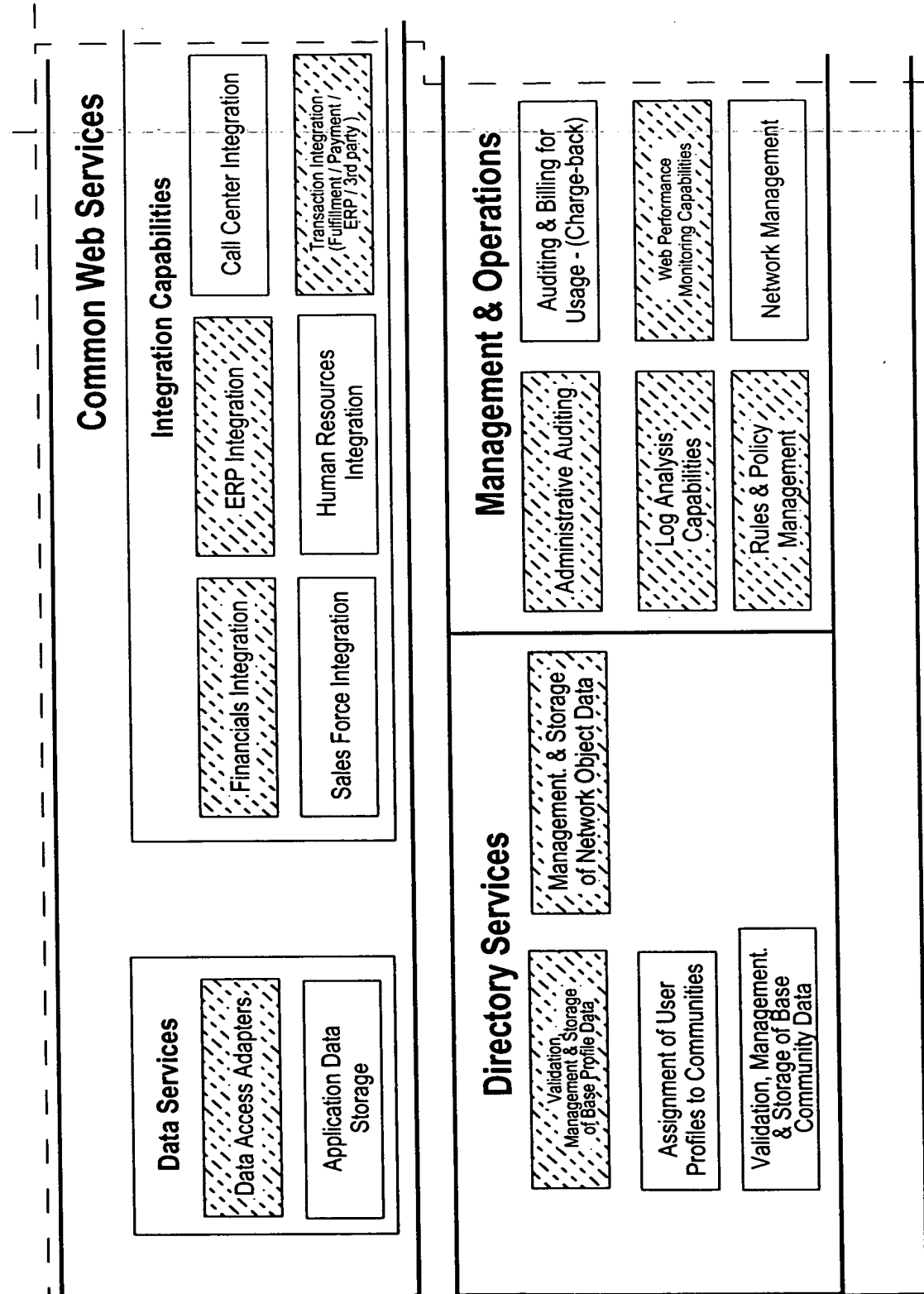


Fig. 30E

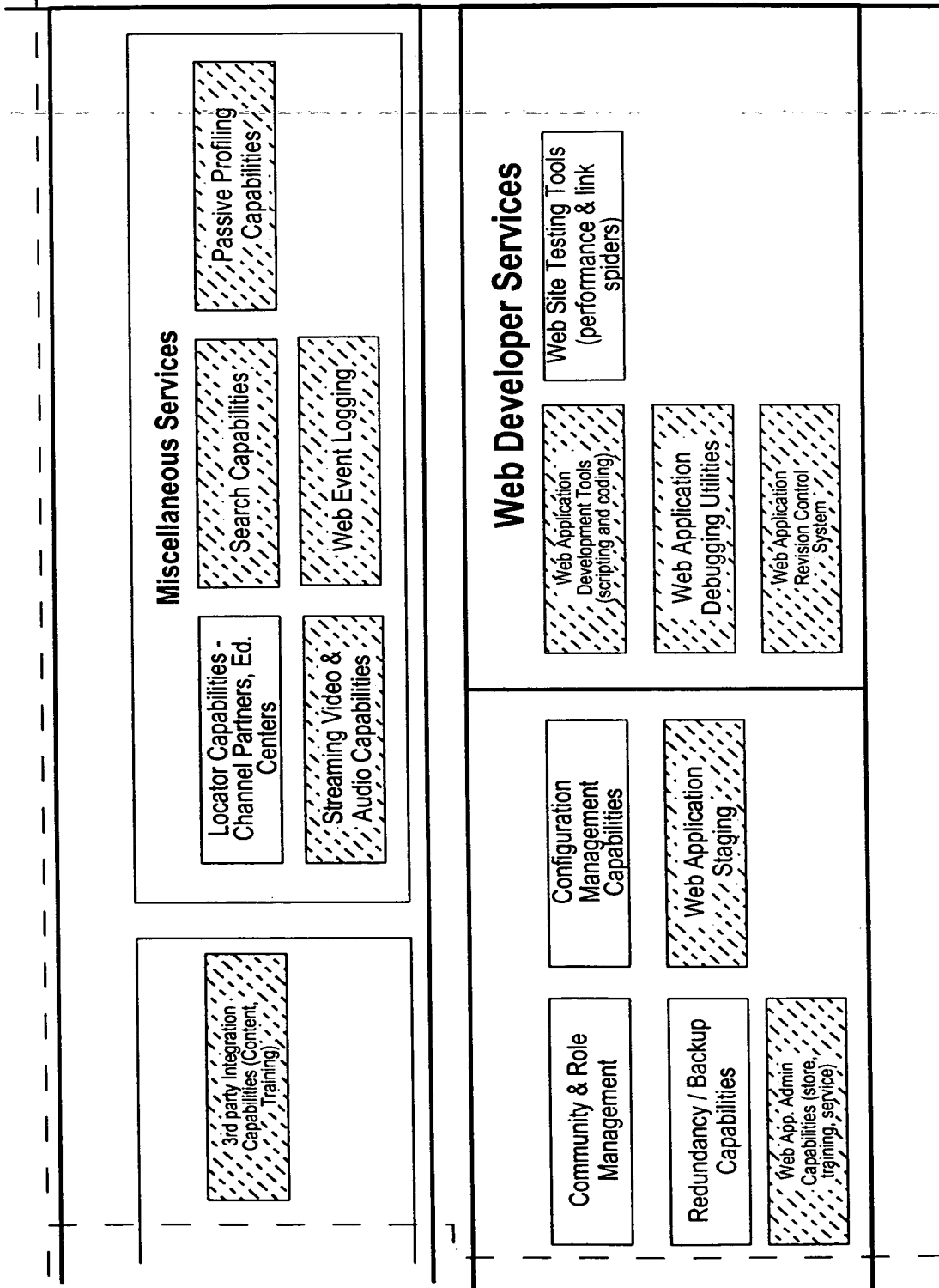


Fig. 30F



Inventor: GUHEEN ET AL.
Docket No.: 8567.108US01
Title: WEB-BASED ARCHITECTURE SALES TOOL (AS AMENDED)
Serial No.: 09/322,073
Sheet 83 of 177

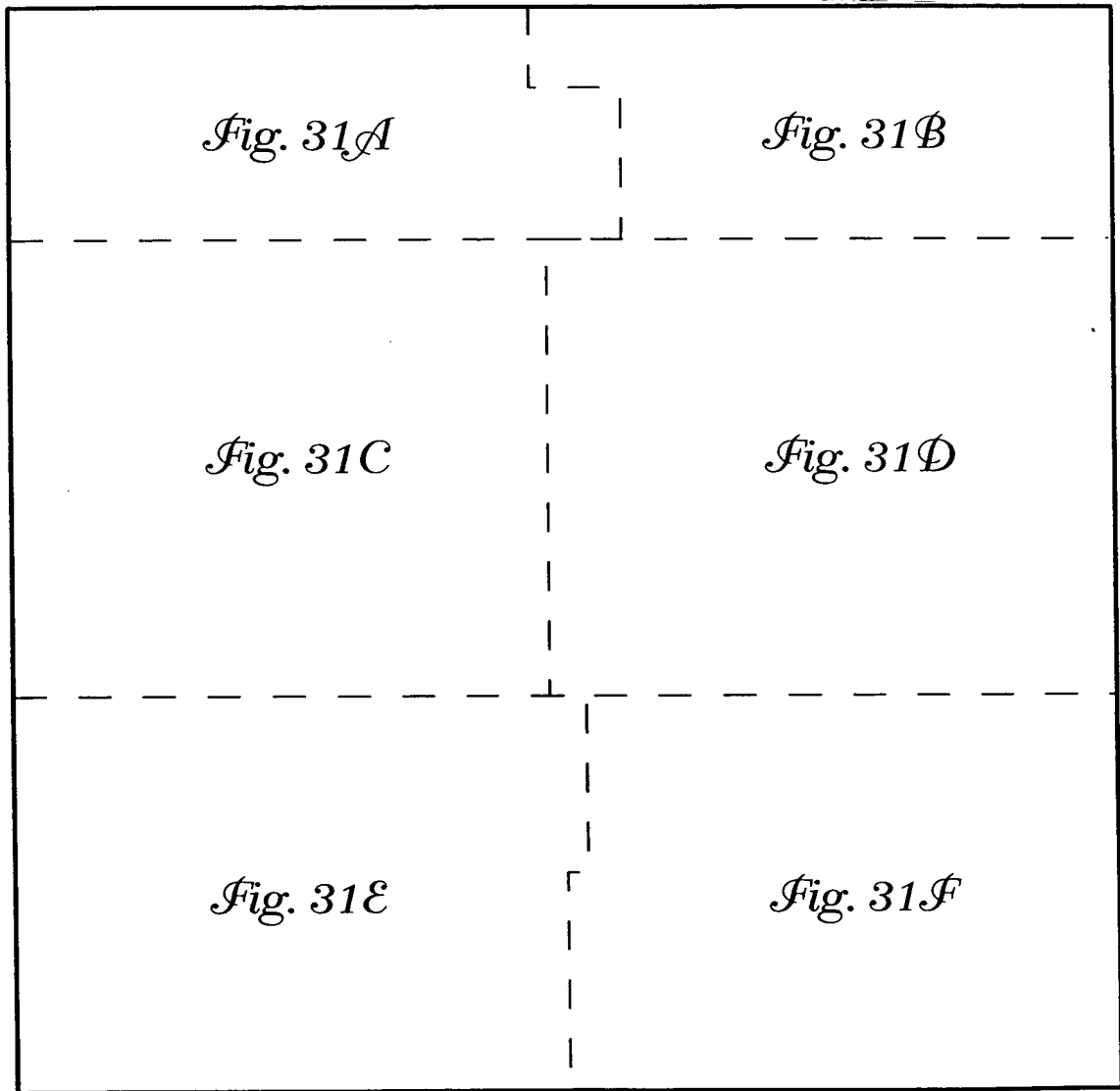


Fig. 31

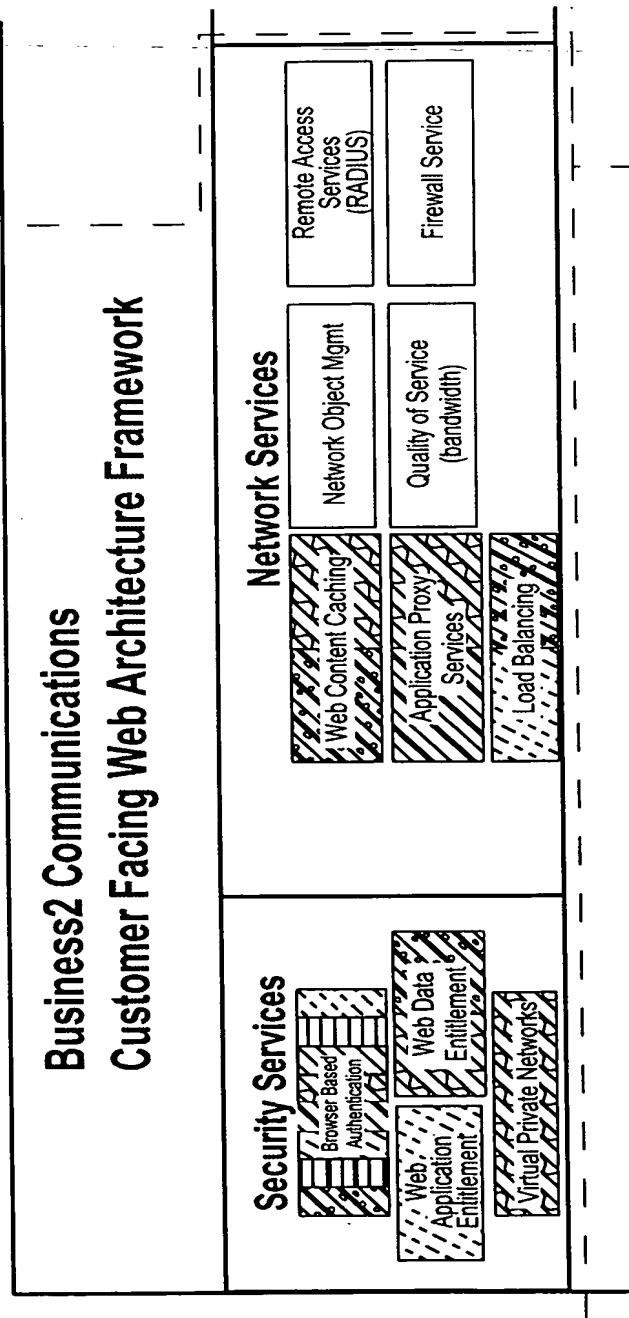


Fig. 31A

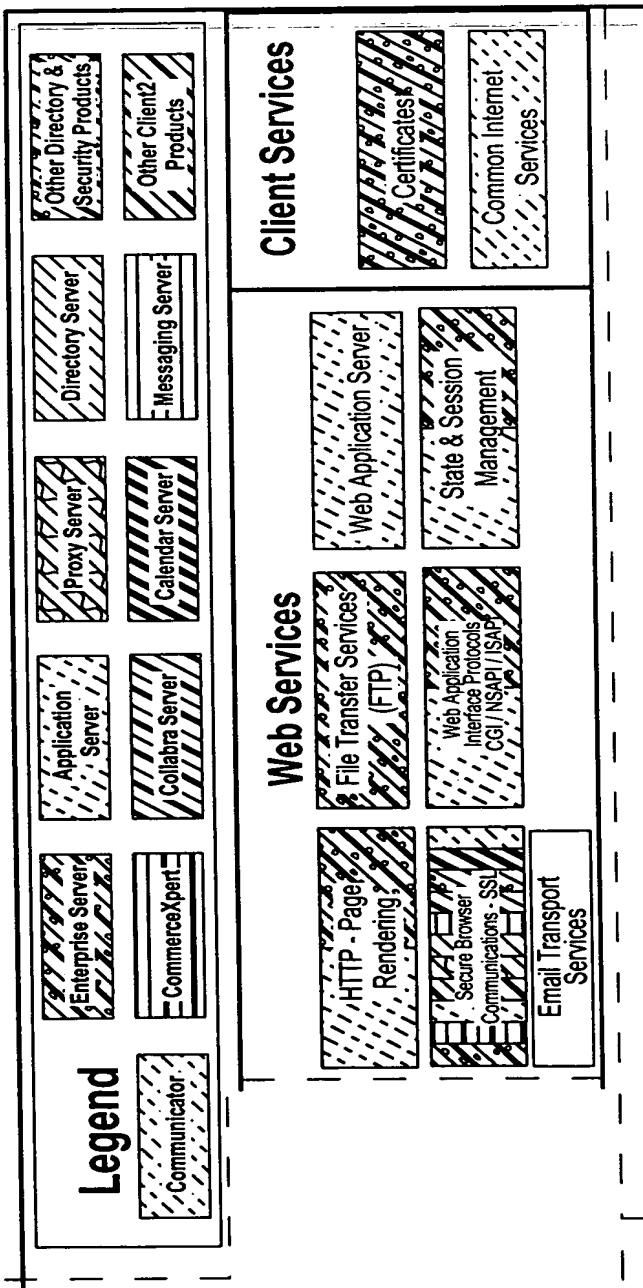


Fig. 31B

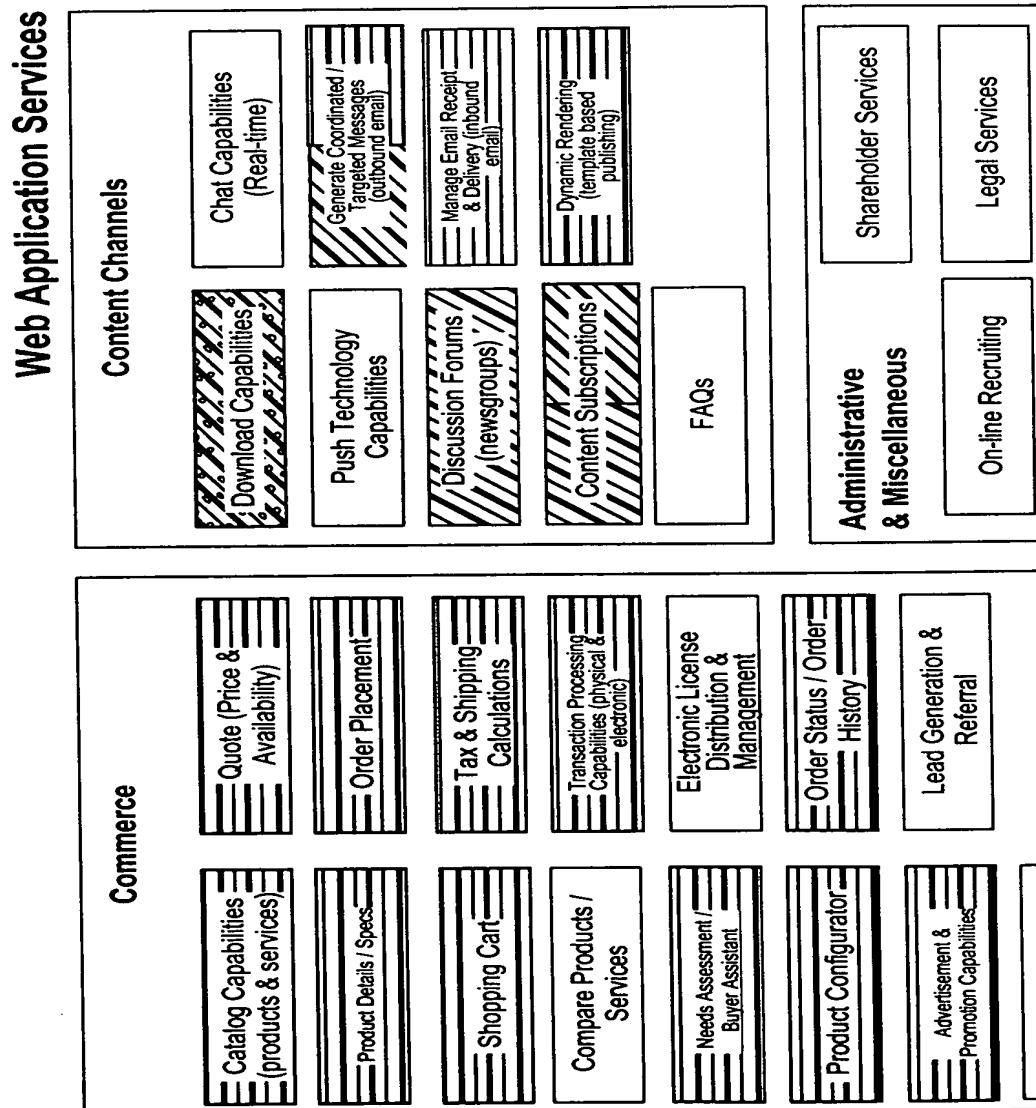


Fig. 31C

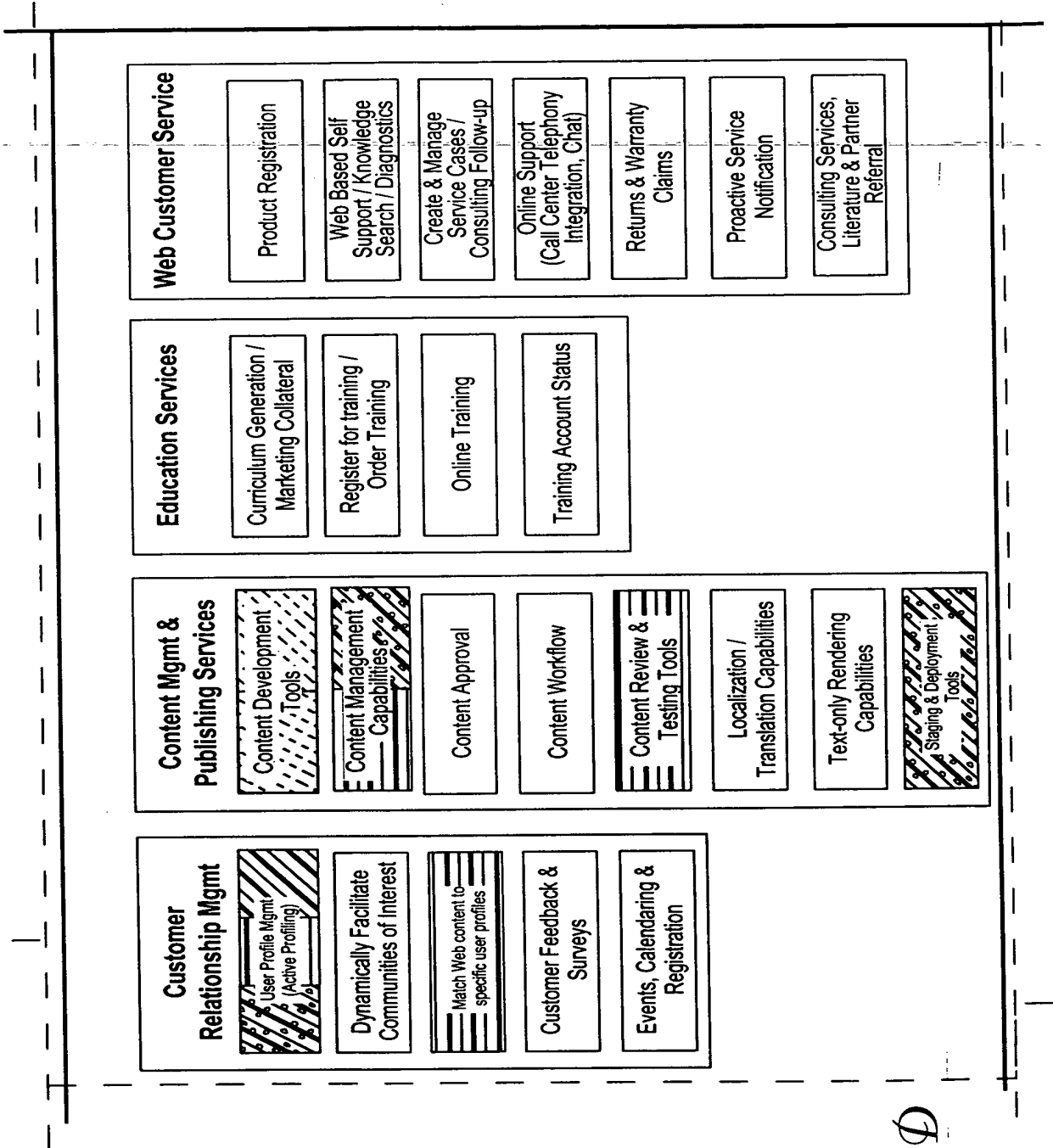
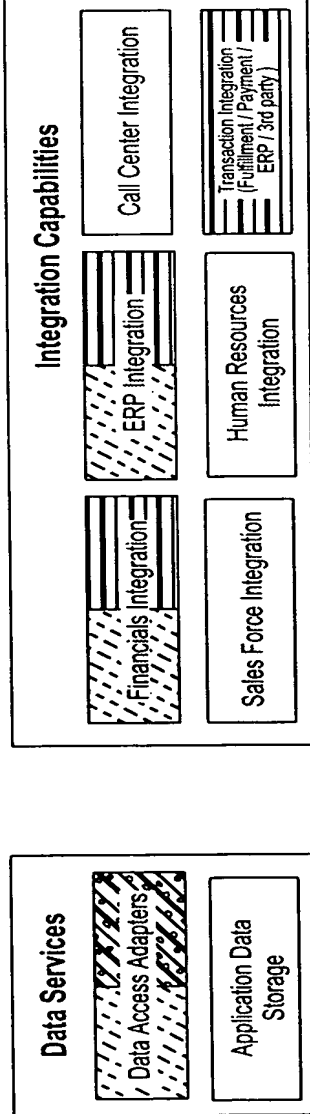


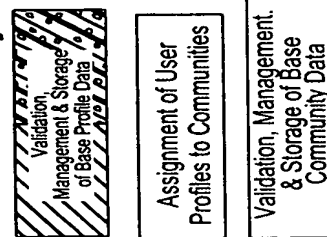
Fig. 31D



Common Web Services



Directory Services



Management & Operations

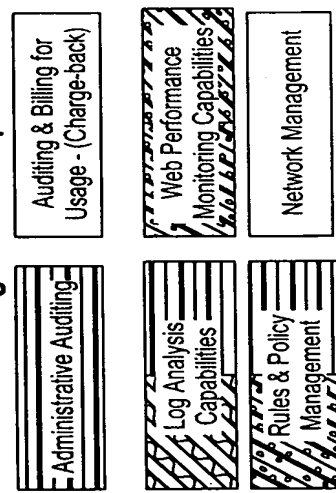


Fig. 31E

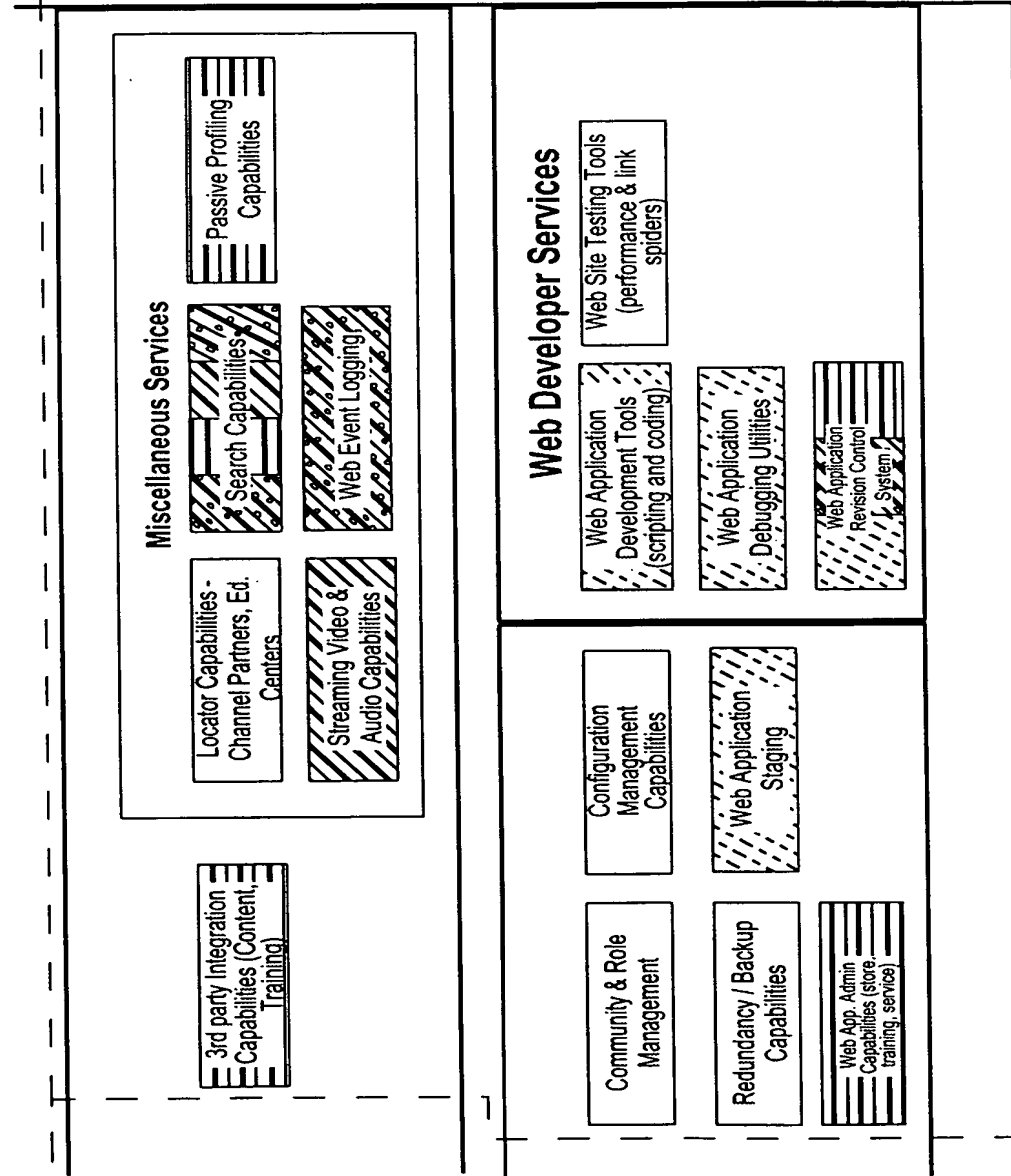


Fig. 31F



Inventor: GUHEEN ET AL.
Docket No.: 8567.108US01
Title: WEB-BASED ARCHITECTURE SALES TOOL (AS AMENDED)
Serial No.: 09/322,073
Sheet 90 of 177

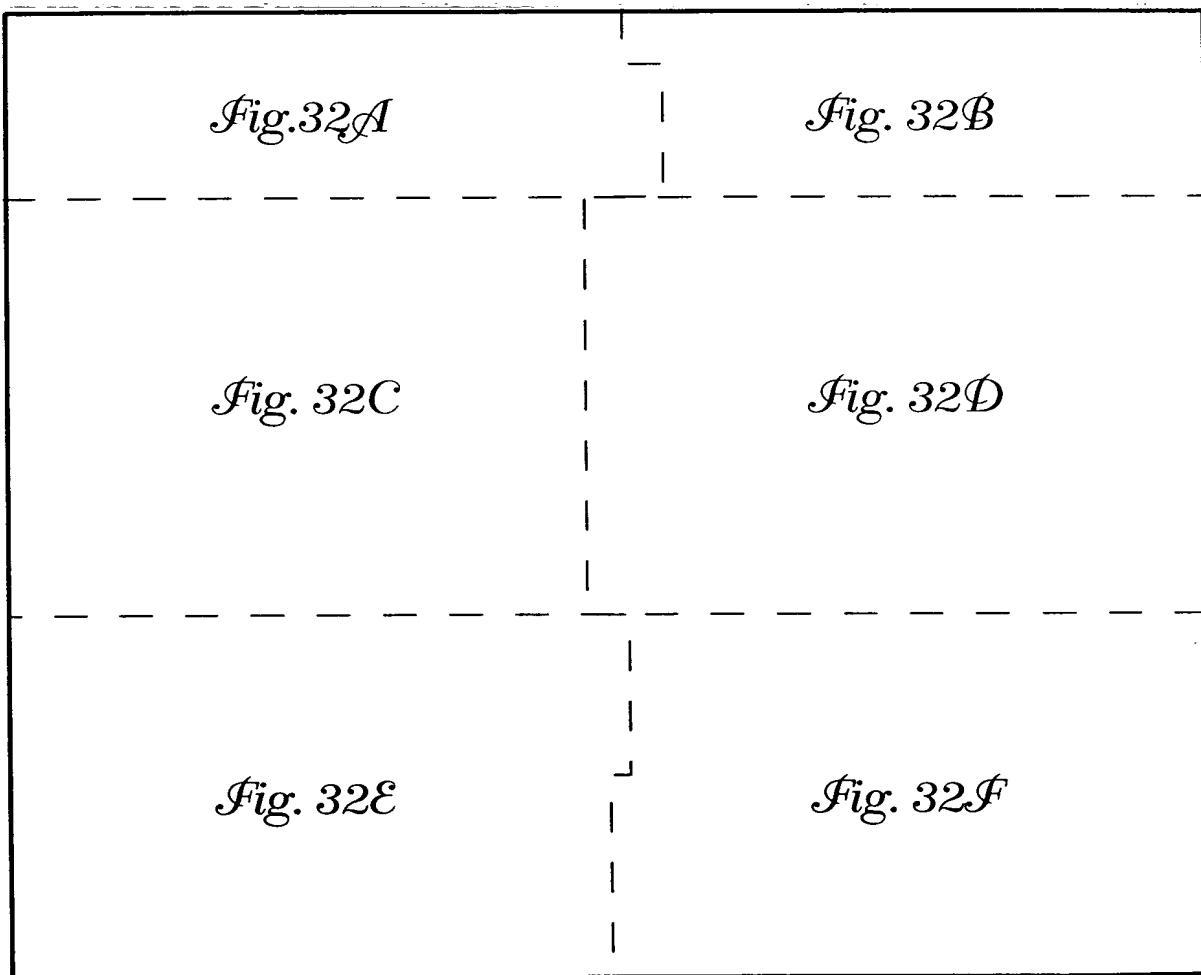


Fig. 32

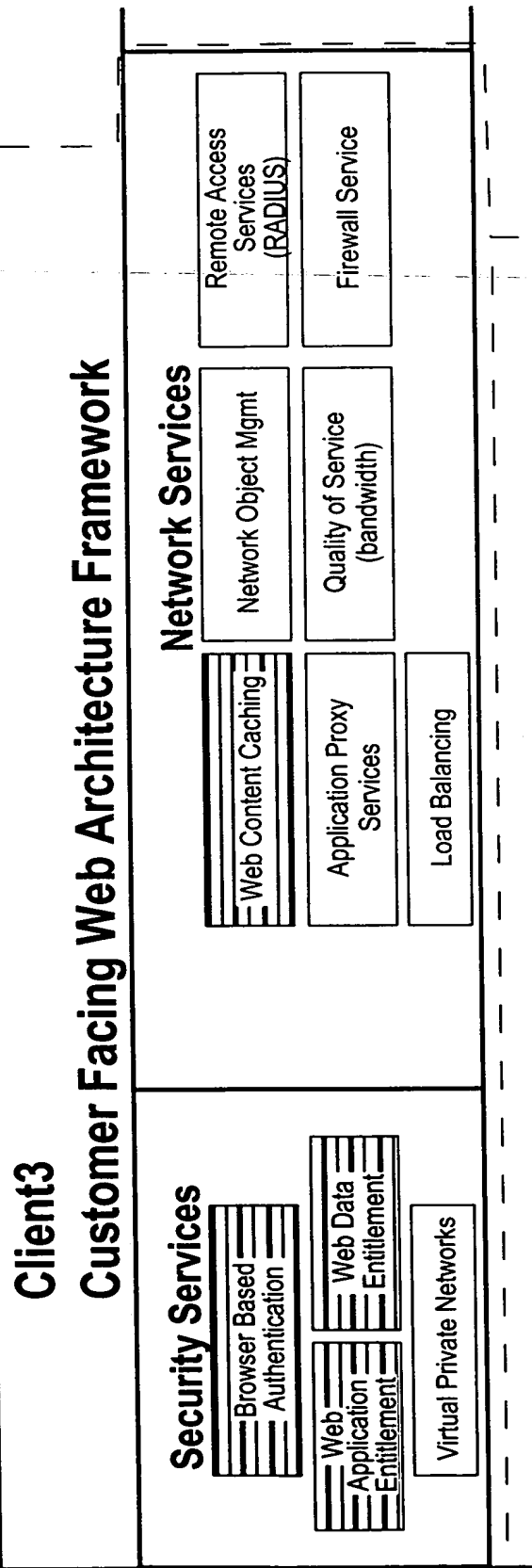


Fig. 32A

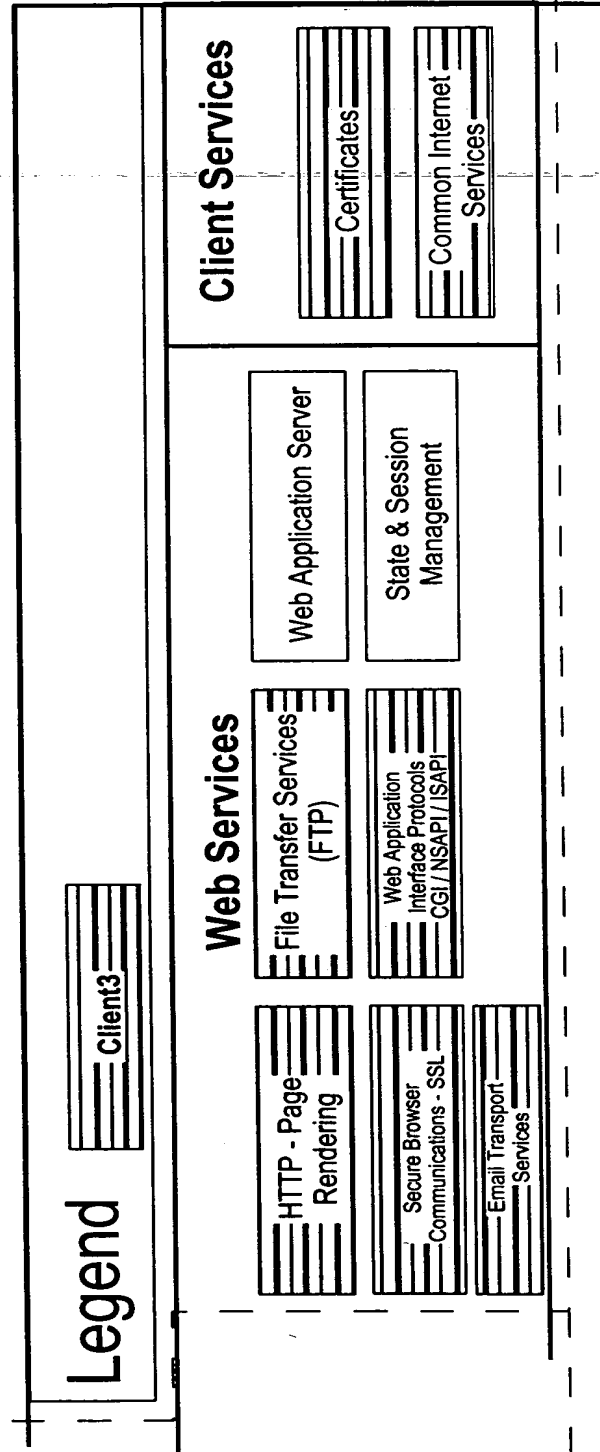


Fig. 32B



Web Application Services

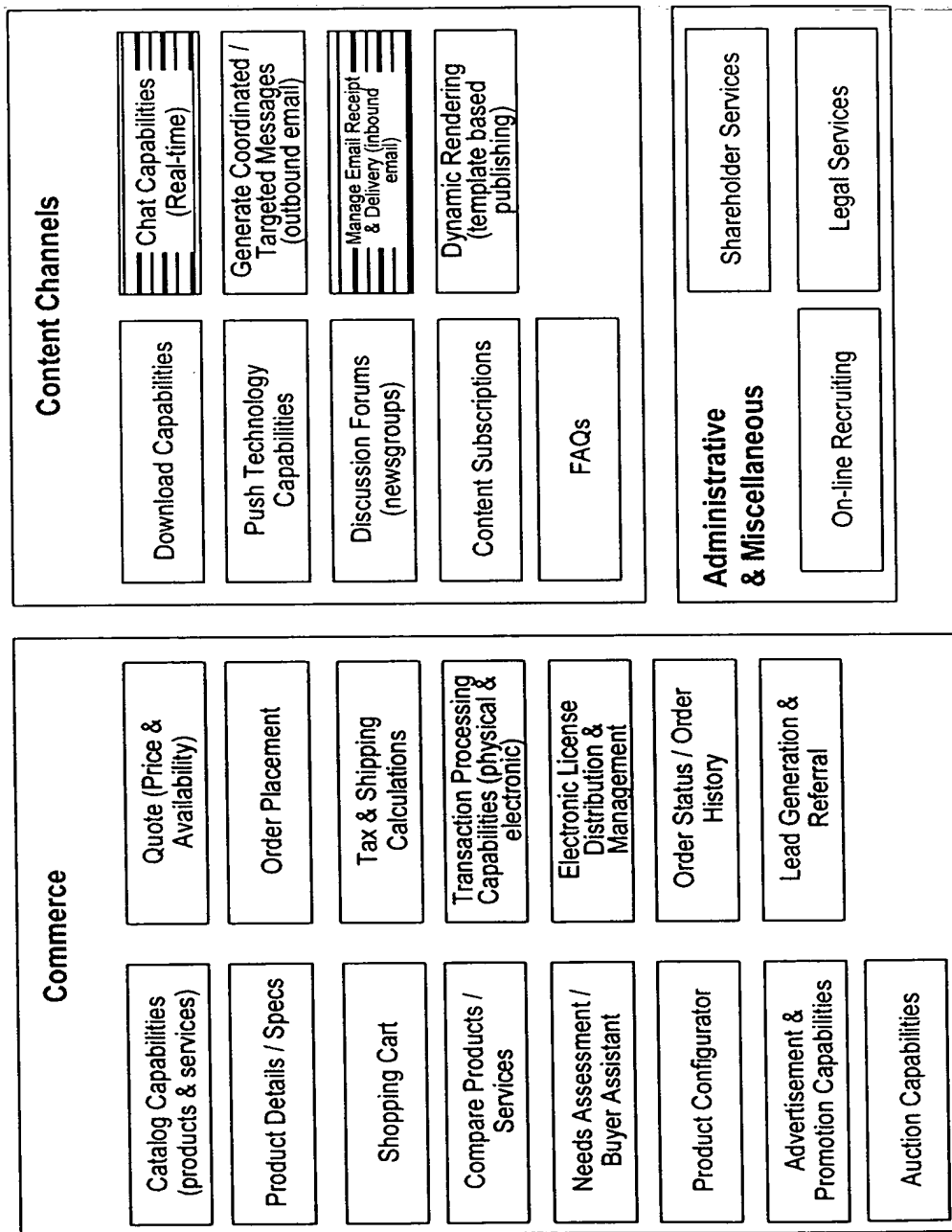


Fig. 32C

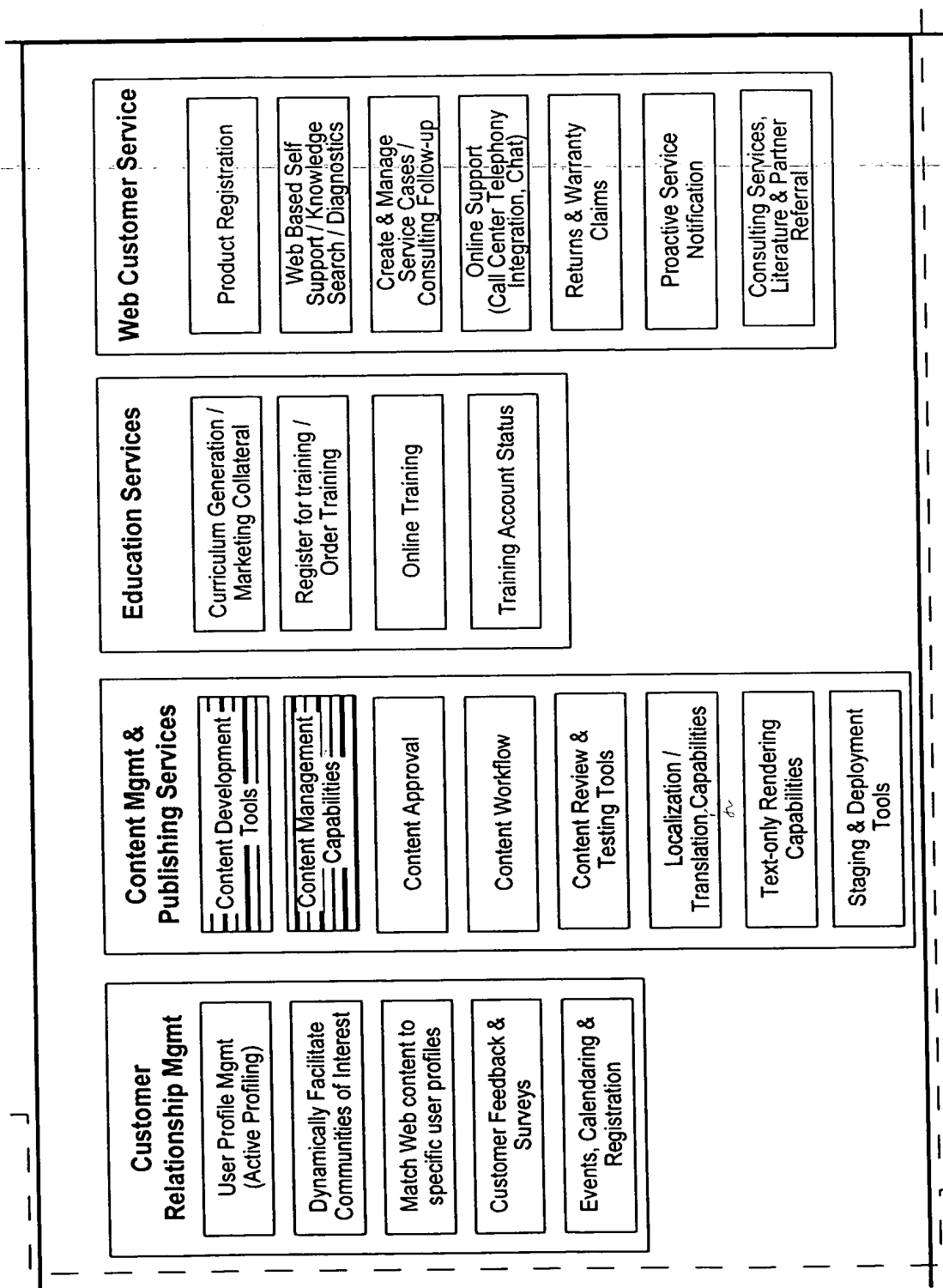


Fig. 32D

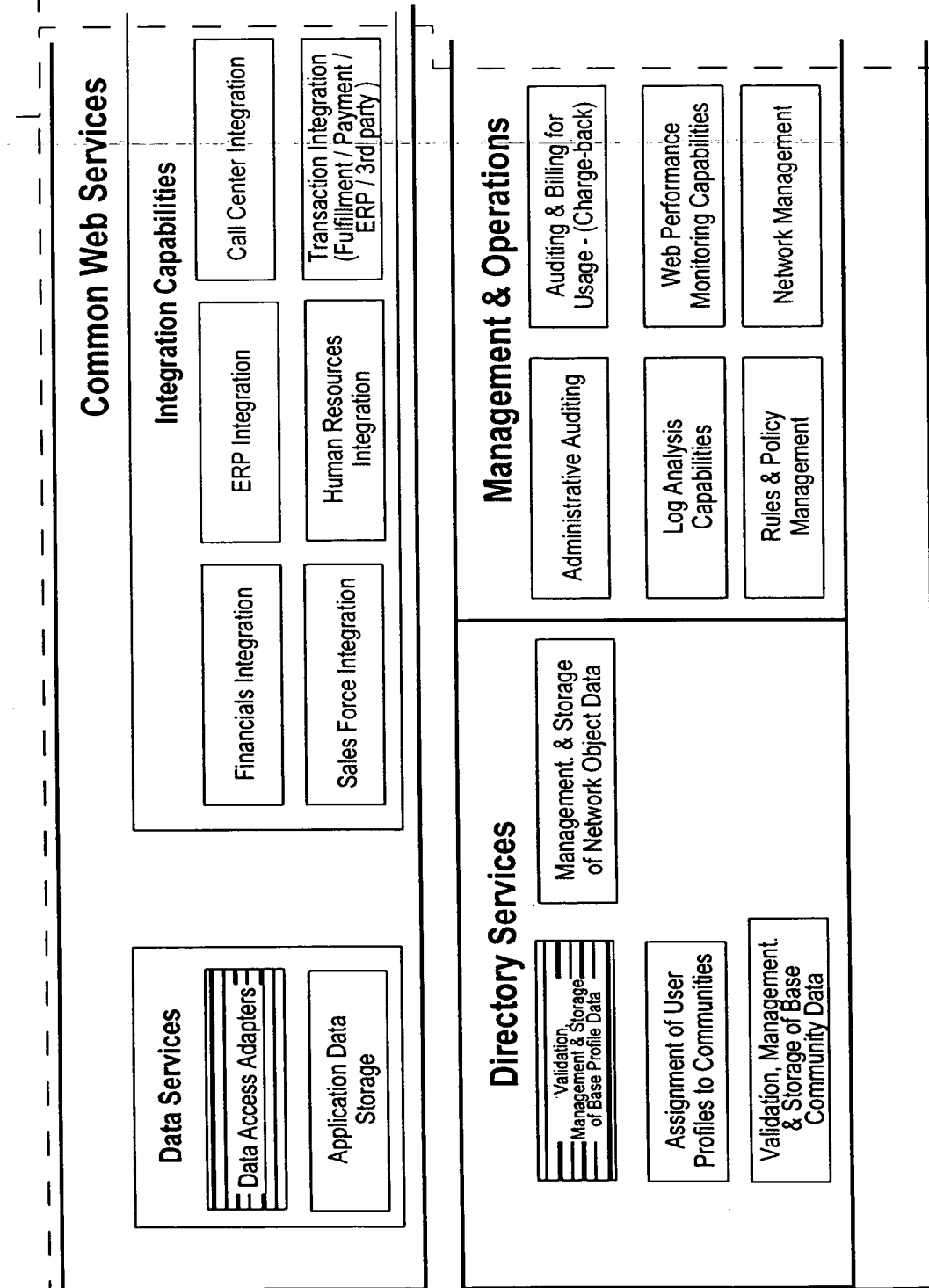


Fig. 32E

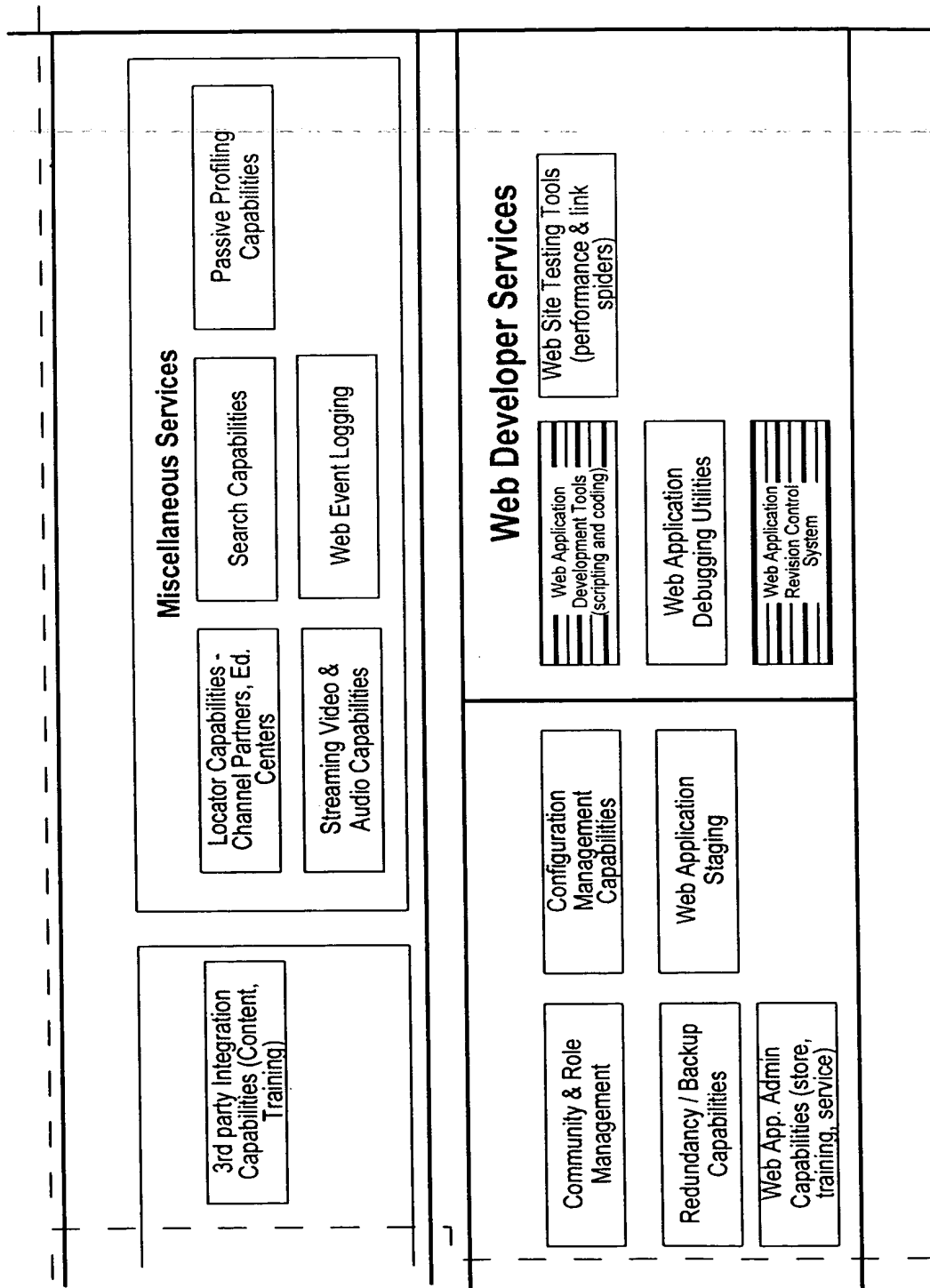


Fig. 32f



Inventor: GUHEEN ET AL.
Docket No.: 8567.108US01
Title: WEB-BASED ARCHITECTURE SALES TOOL (AS AMENDED)
Serial No.: 09/322,073
Sheet 97 of 177

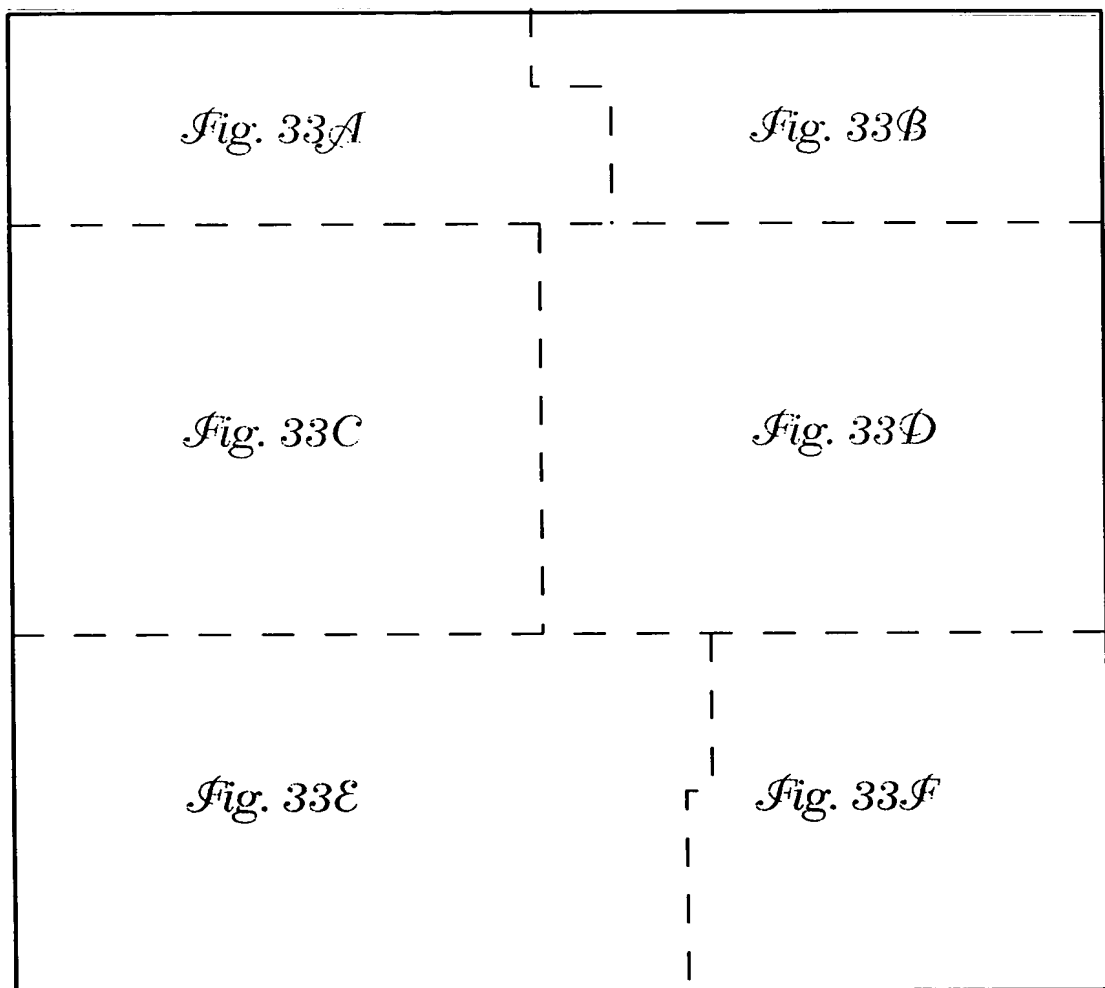


Fig. 33



Business3 Customer Facing Web Architecture Framework

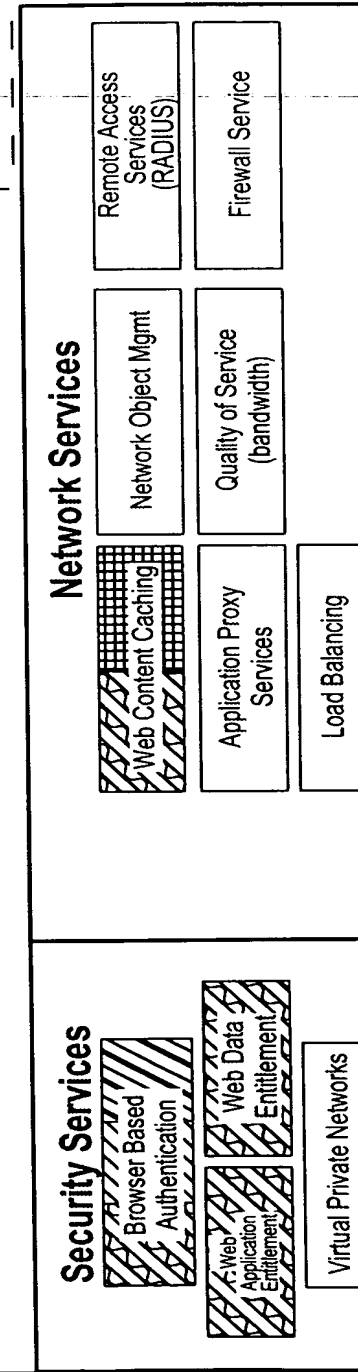
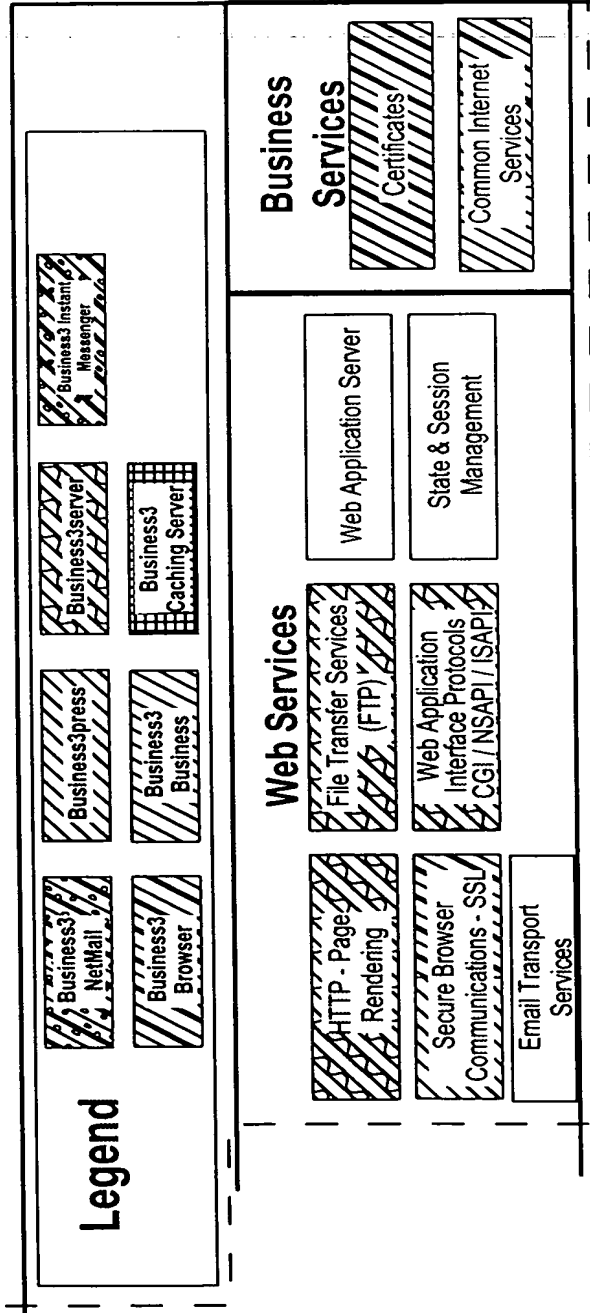


Fig. 33A



Fig. 33B





Web Application Services

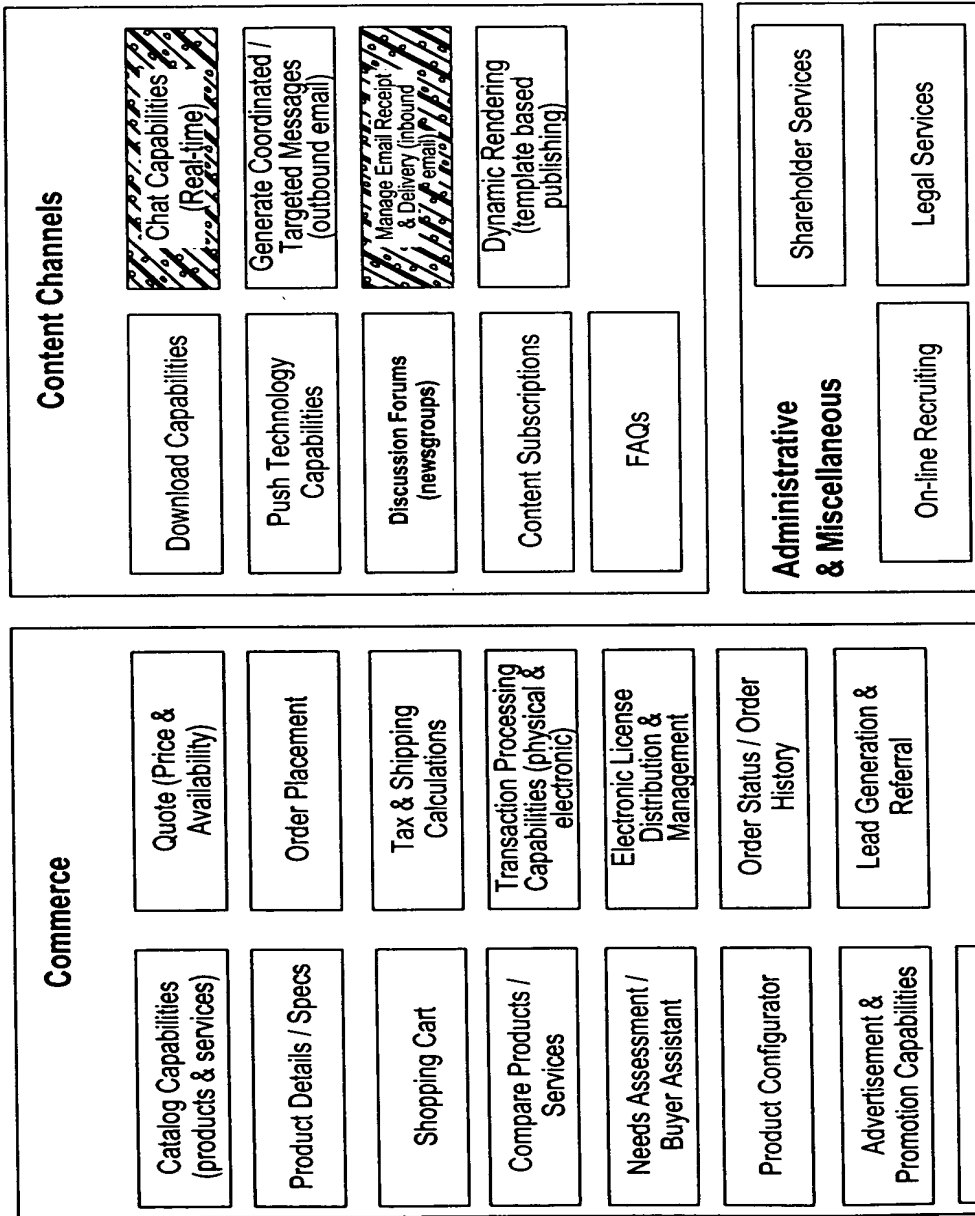


Fig. 33C

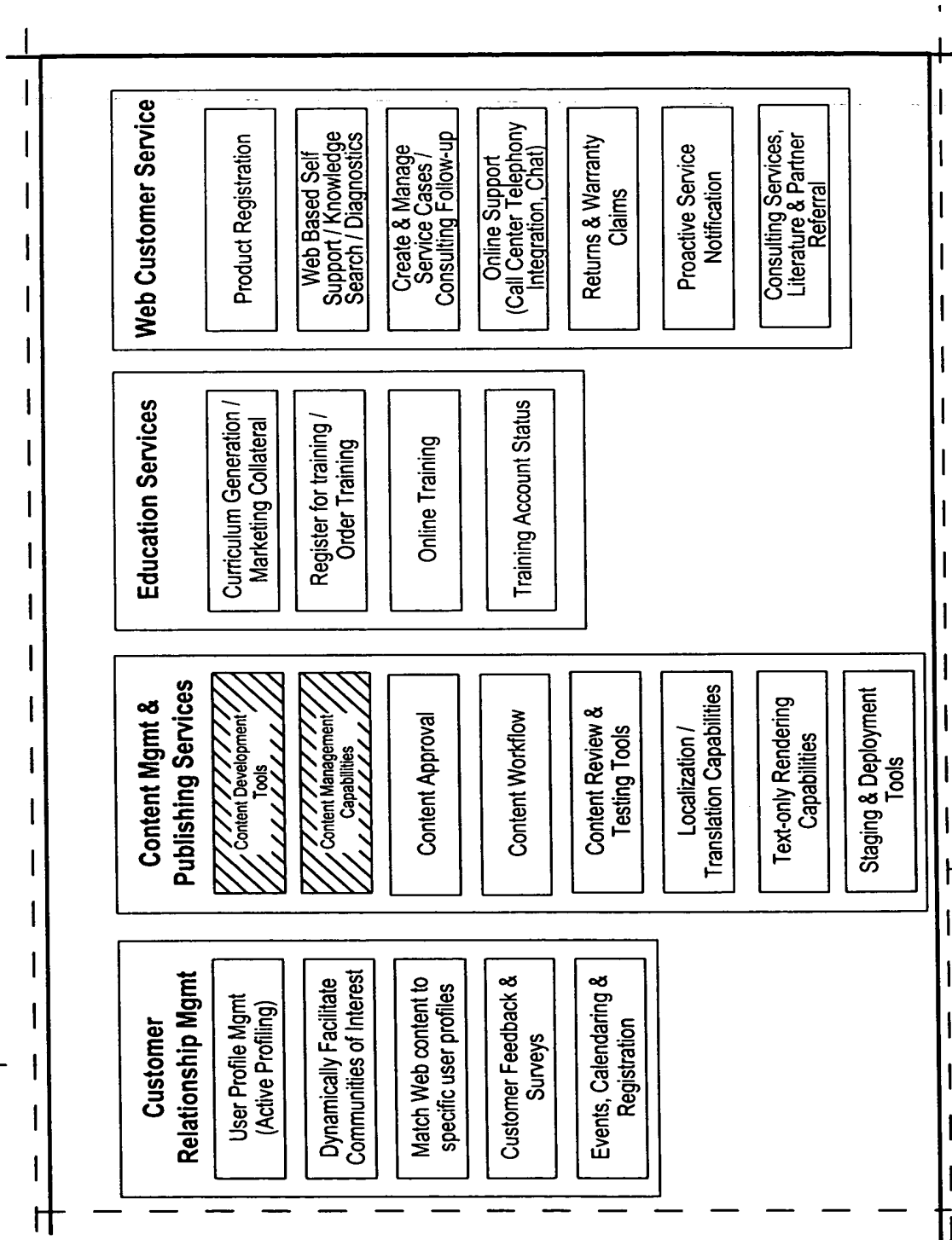


Fig. 33D

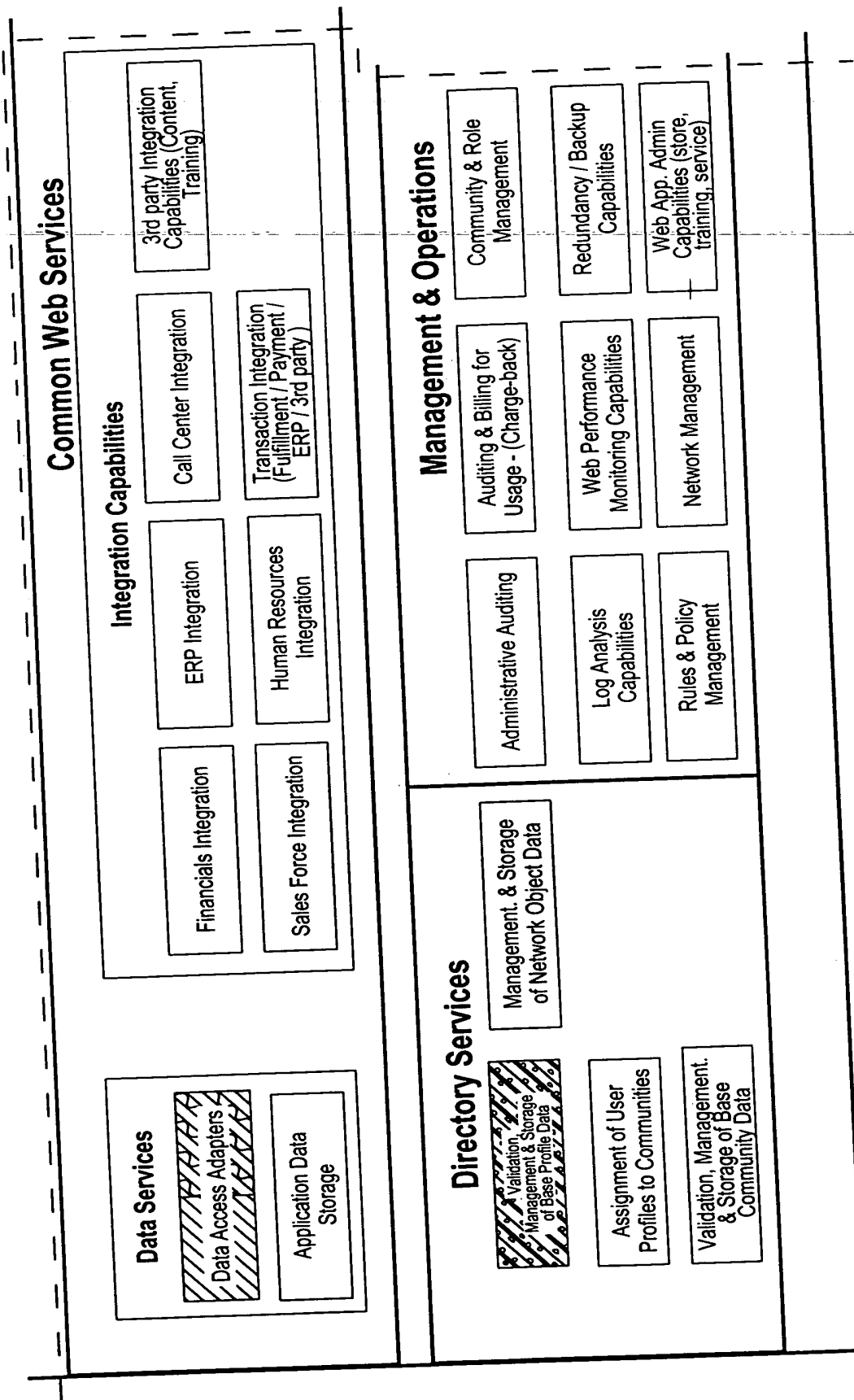


Fig. 33E

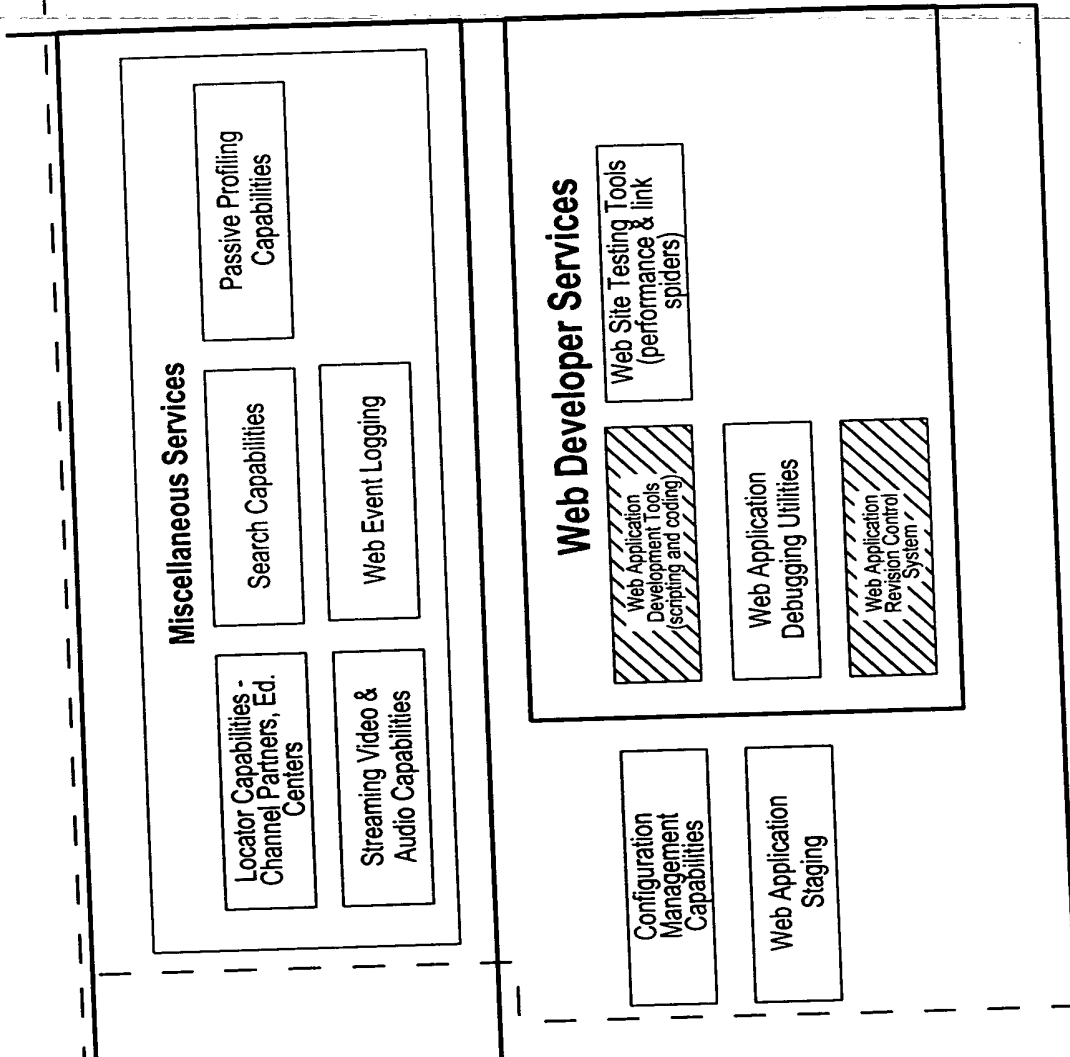


Fig. 33F



Inventor: GUHEEN ET AL.
Docket No.: 8567.108US01
Title: WEB-BASED ARCHITECTURE SALES TOOL (AS AMENDED)
Serial No.: 09/322,073
Sheet 104 of 177

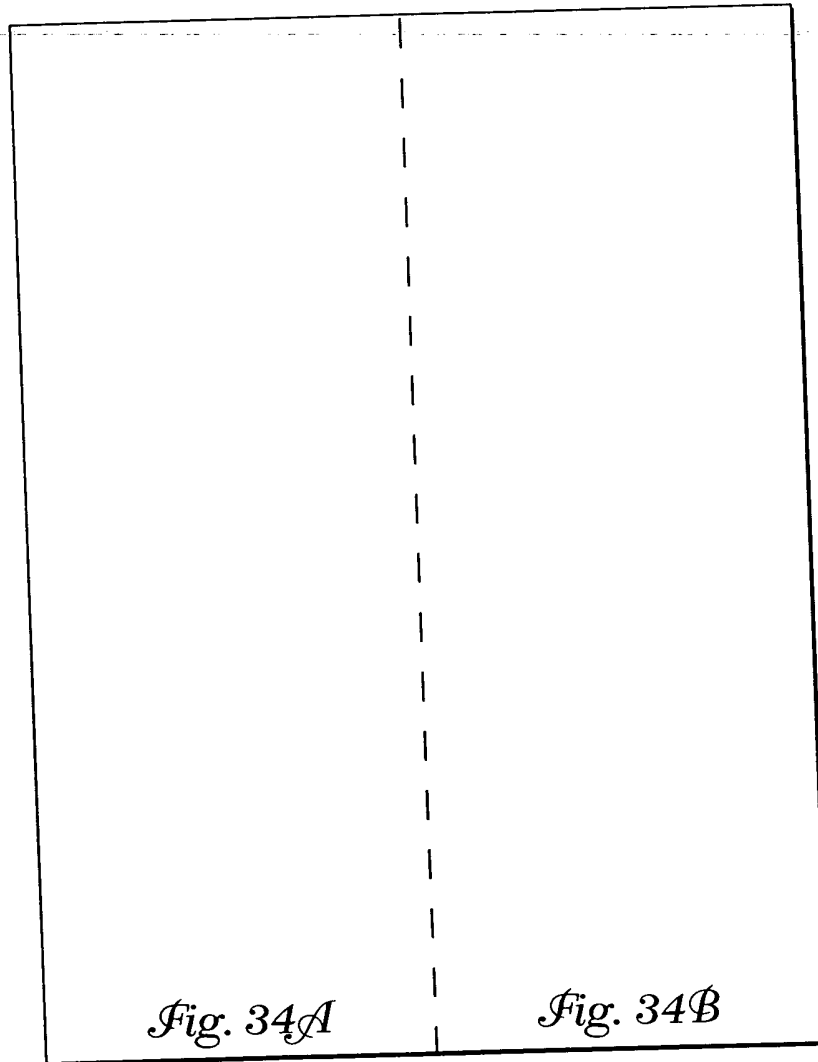


Fig. 34



Business1

Customer Facing Capabilities - Infrastructure Services

Core Capabilities

Extended Detail

Security Services



- ☒ Verifies user identity using built-in browser functionality
- ☒ Maintains authentication information throughout sessions
- ☒ Utilizes centralized directory of profiles
- ☐ Provides LDAP compatibility
- ☐ Provides NDS compatibility



- ☐ ☒ ☒ Restricts access to specific web applications based upon user privileges
- ☐ ☒ ☒ Determines if a user or group of users have permission to perform an operation in a specific application
- ☐ ☒ ☒ Utilizes centralized directory of profiles for entitlement data
- ☐ ☒ ☒ Provides LDAP compatibility
- ☐ ☐ ☐ Provides NDS compatibility



- ☐ ☒ ☒ Restricts access to web content and data based upon user privileges
- ☐ ☒ ☒ Determines if a user or group of users have permission to manipulate web data (create, read, update, delete)
- ☐ ☒ ☒ Utilizes centralized directory of profiles for entitlement data
- ☐ ☒ ☒ Provides LDAP compatibility
- ☐ ☐ ☐ Provides NDS compatibility



- ☐ ☒ Offers guaranteed secure data transfer
- ☐ ☒ Allows remote login
- ☐ ☒ Provides ability to grant varying levels of access based on user identity

Network Services



- ☒ ☒ Stores frequently requested web pages and graphics in a temporary location
- ☒ ☒ Serves up previously cached content without accessing original source
- ☒ ☒ Updates cache automatically to ensure integrity of content

Fig. 34A

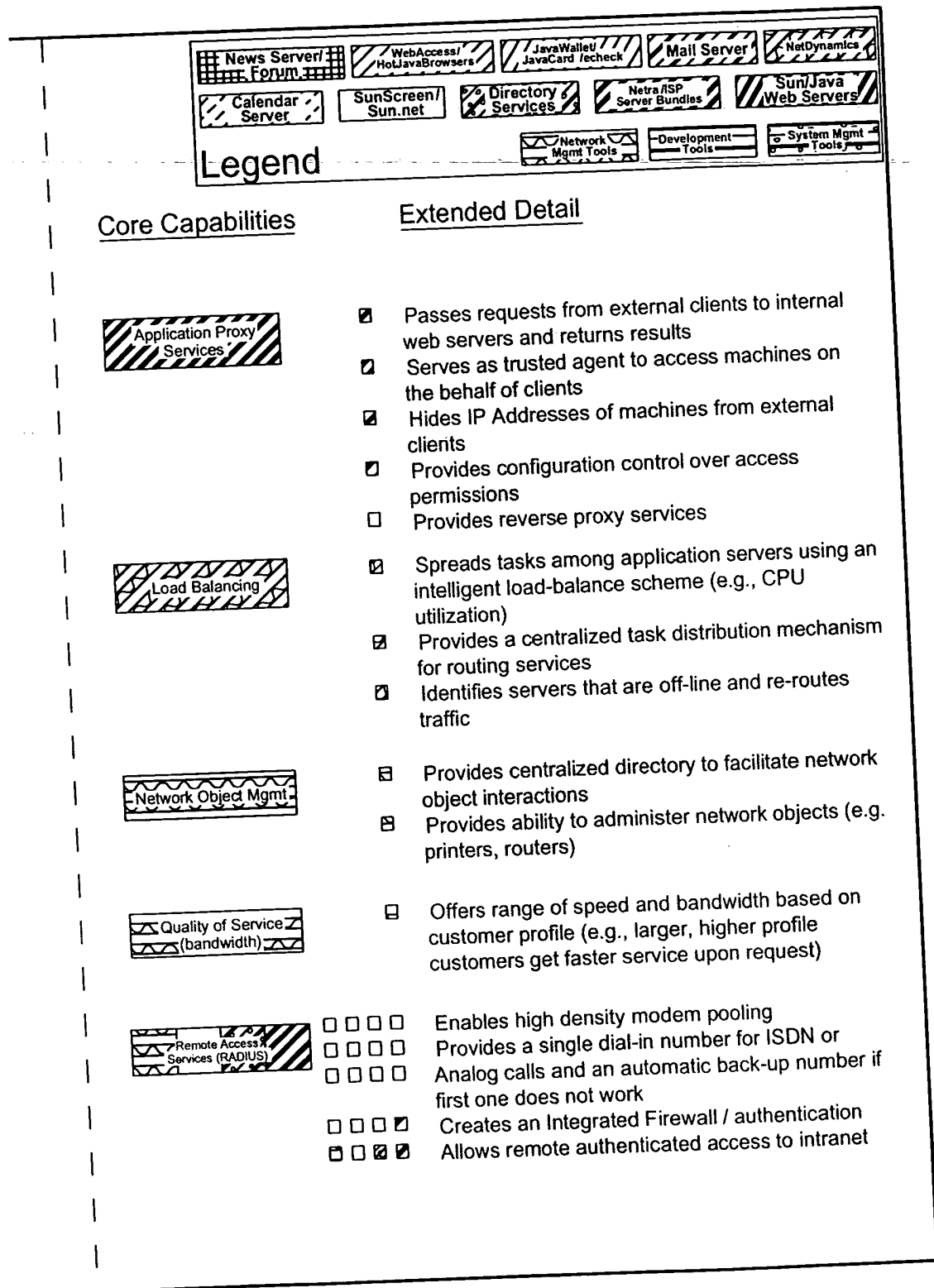
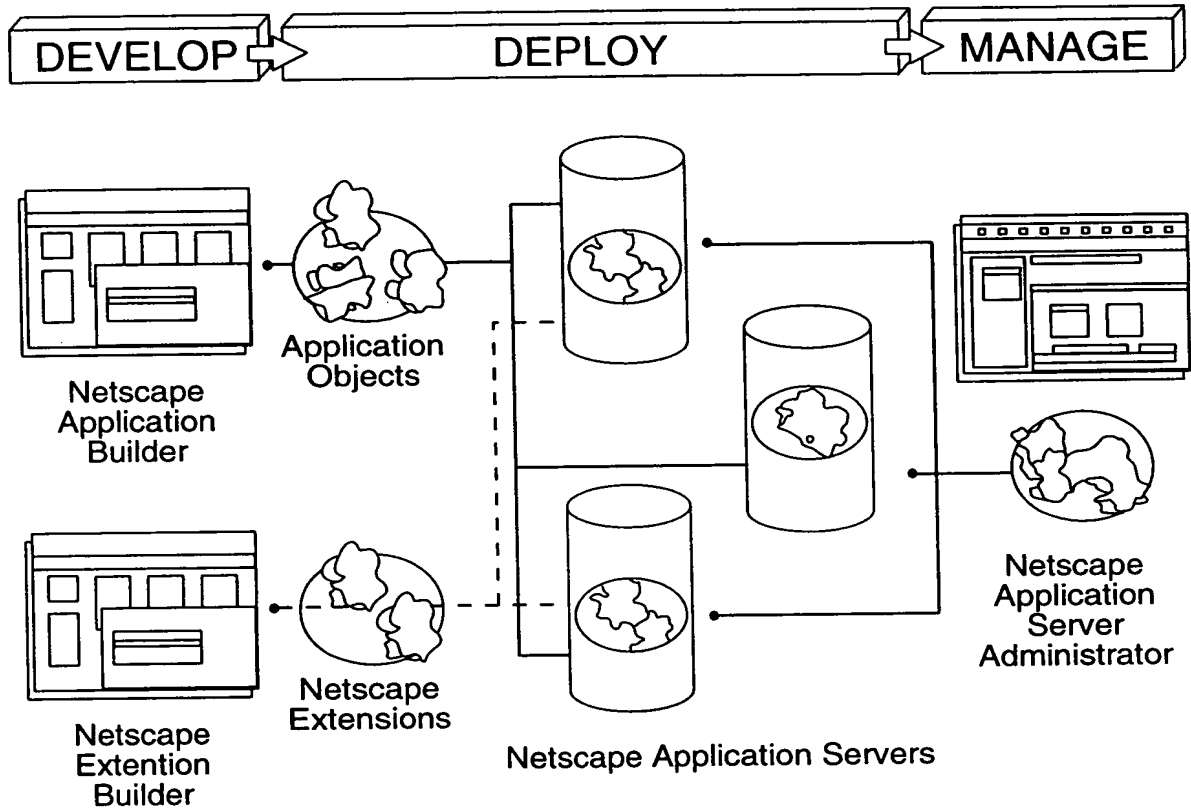


Fig. 34B



Client2 Application Server



Client2 Application Server

Fig. 35

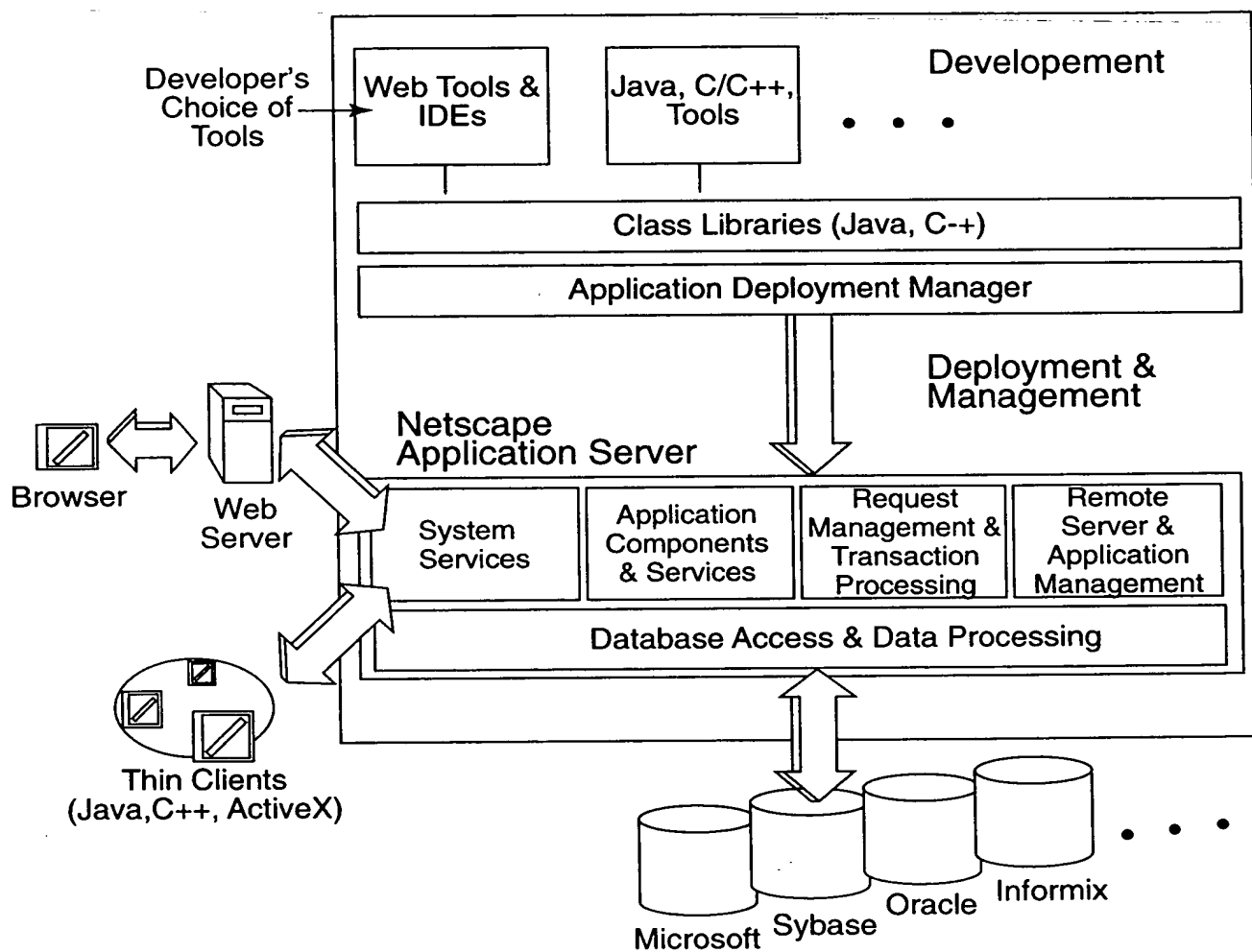


Fig. 36



Client2 ECXpert

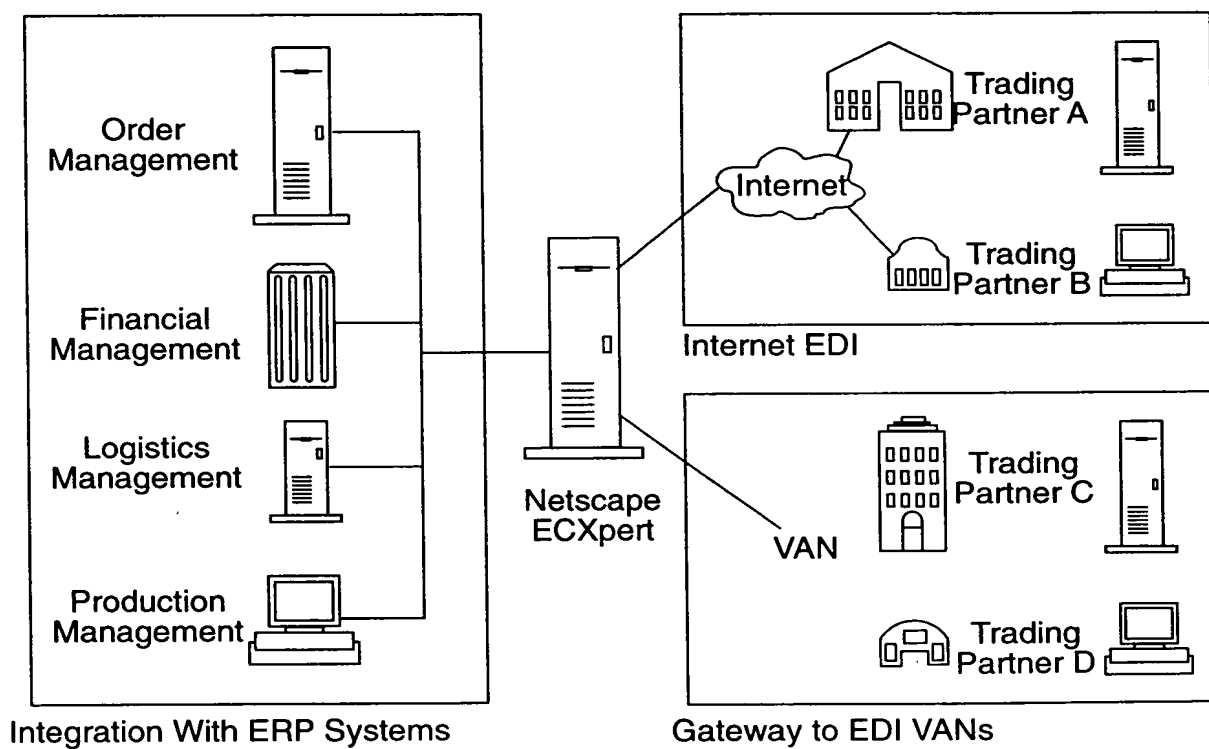


Fig. 37



Client2 ECXpert

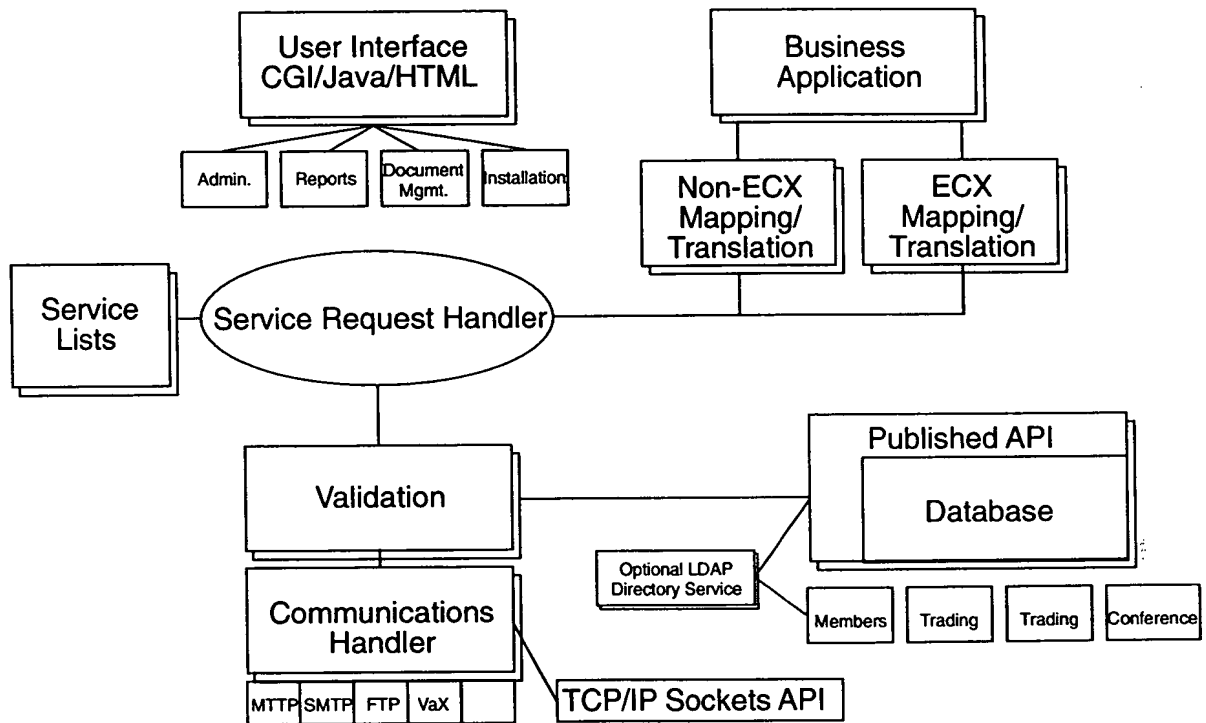


Fig. 38



Client2 SellerXpert

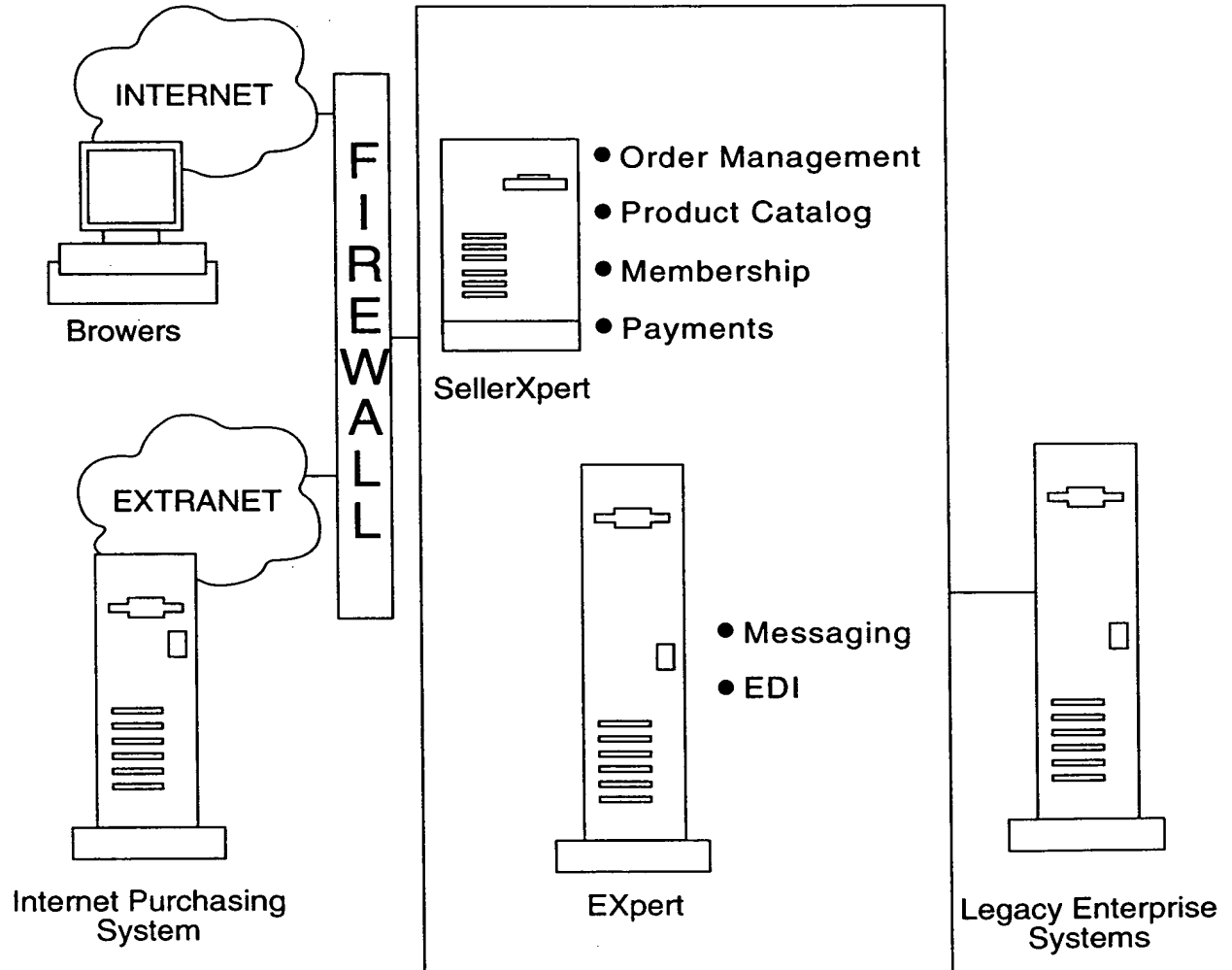


Fig. 39



Client2 PublishingXpert

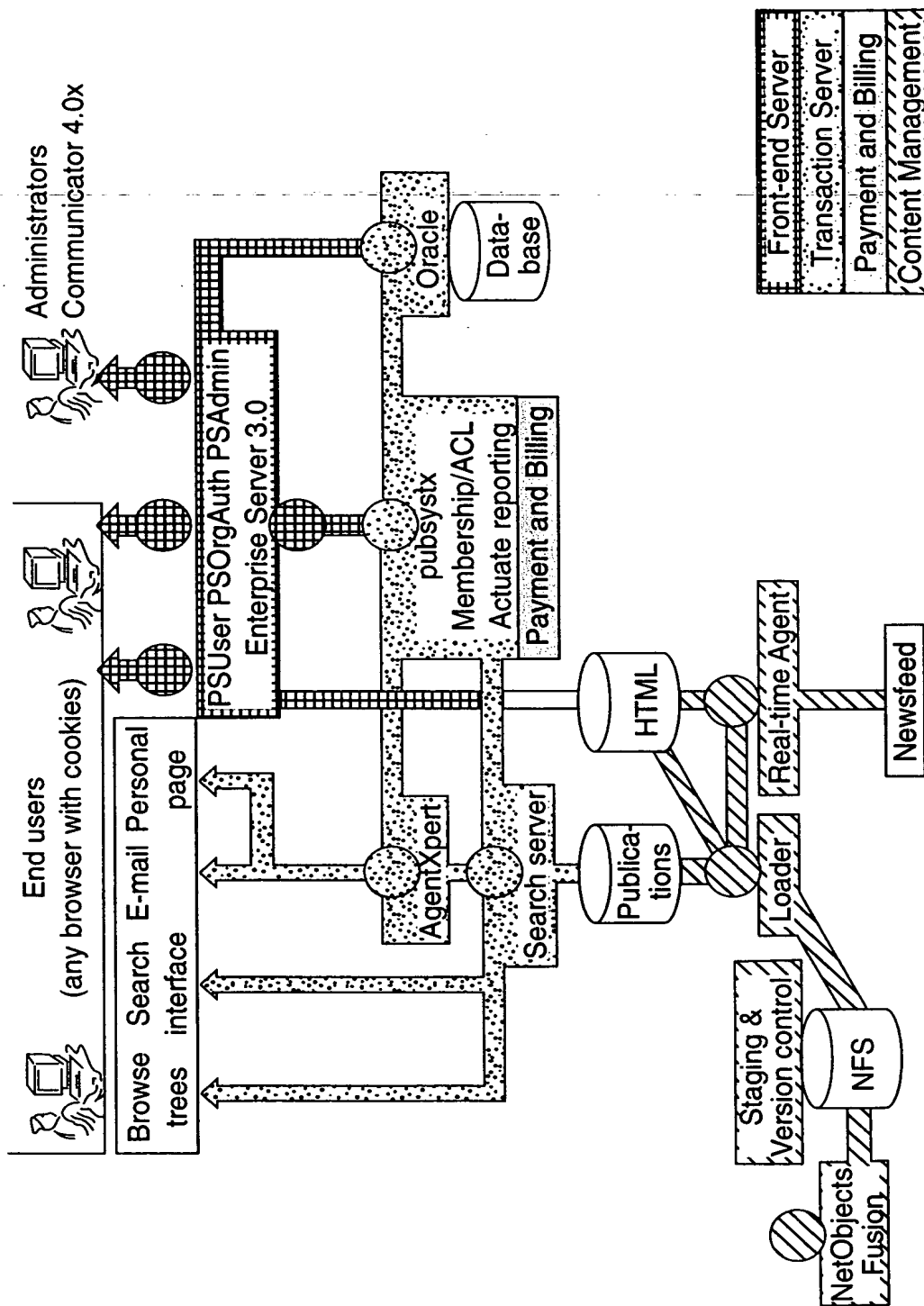
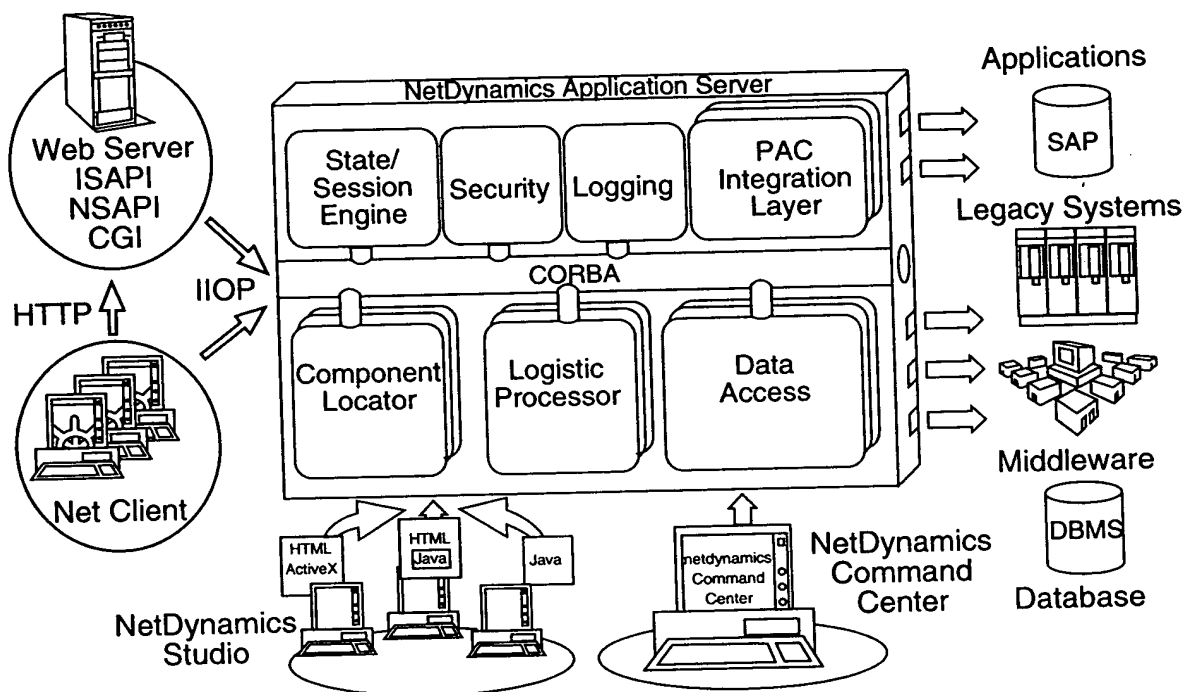


Fig. 40



- ① Any Web browser requests a dynamic-page
- ② The Web server notifies ColdFusion
- ③ ColdFusion processes the dynamic-page based on the CFML tags
- ④ ColdFusion generates an HTML page
- ⑤ The Web server sends the HTML page to the browser

Fig. 41



Client1 Internet Mail Server

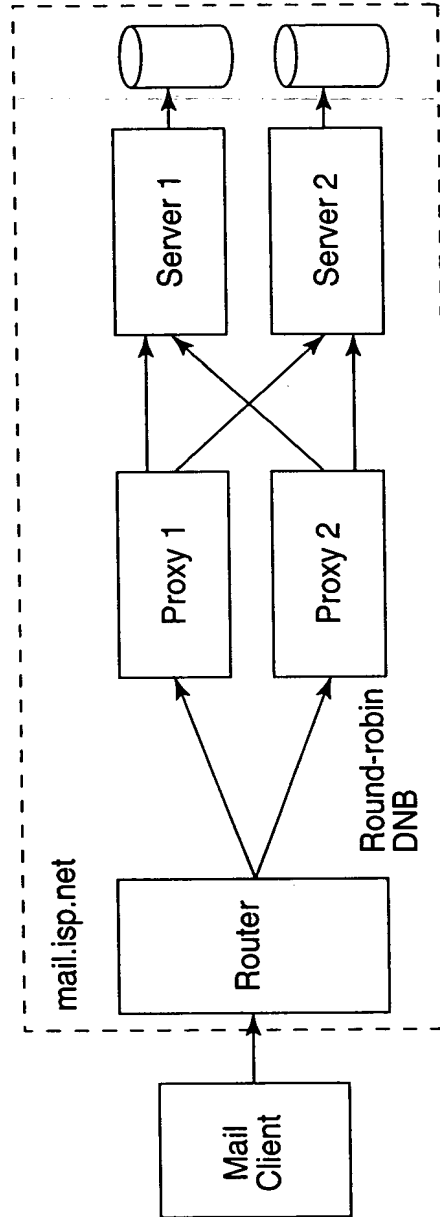


Fig. 42



Client1 Internet News Server

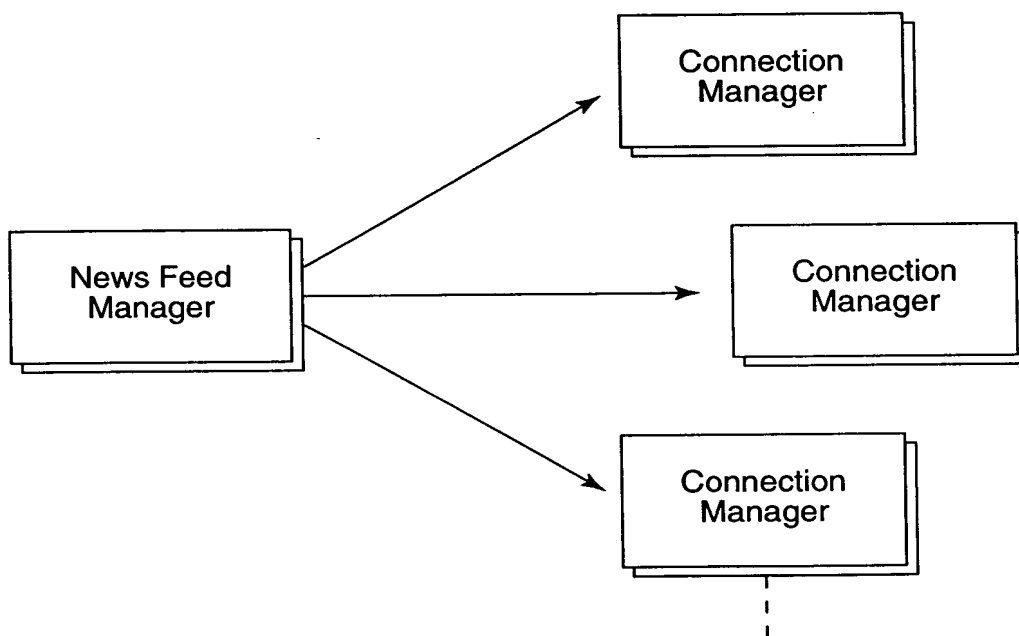


Fig. 43



Client1 Personal WebAccess Browser

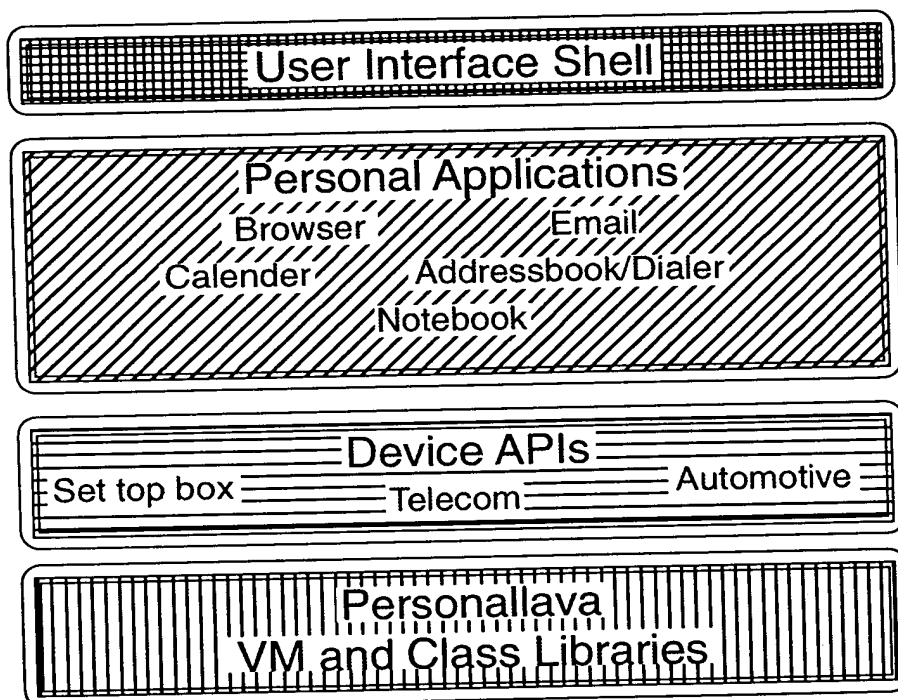


Fig. 44



Client1 Directory Services

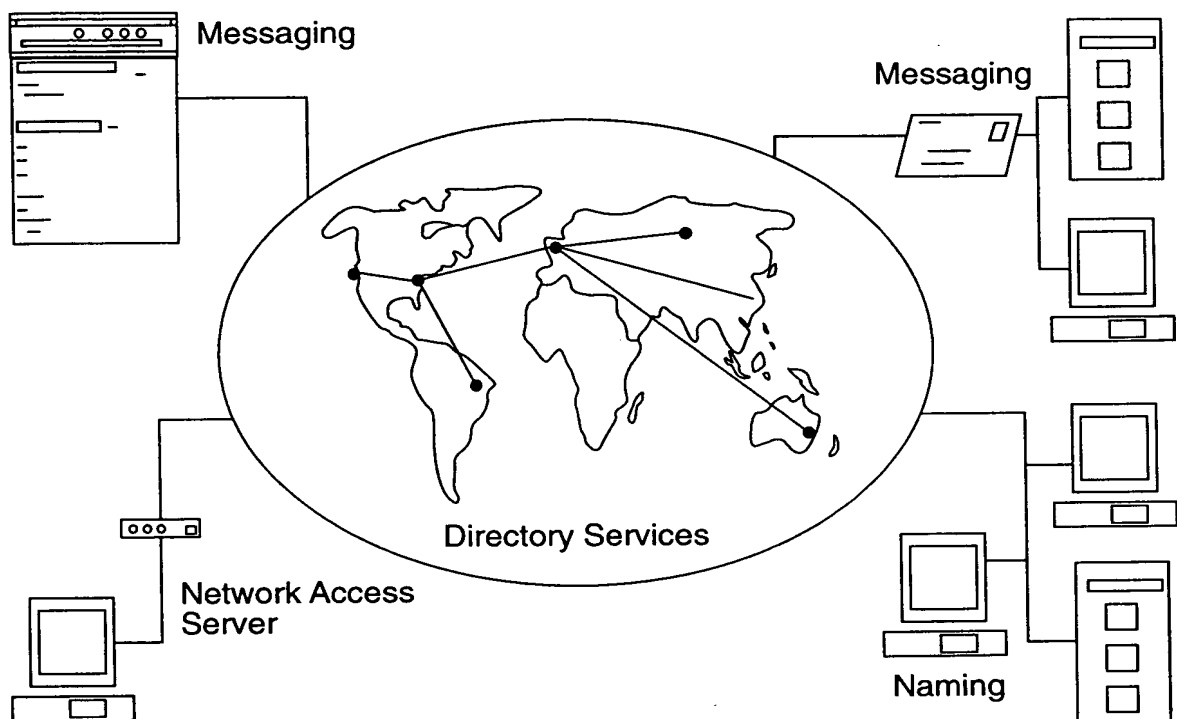


Fig. 45

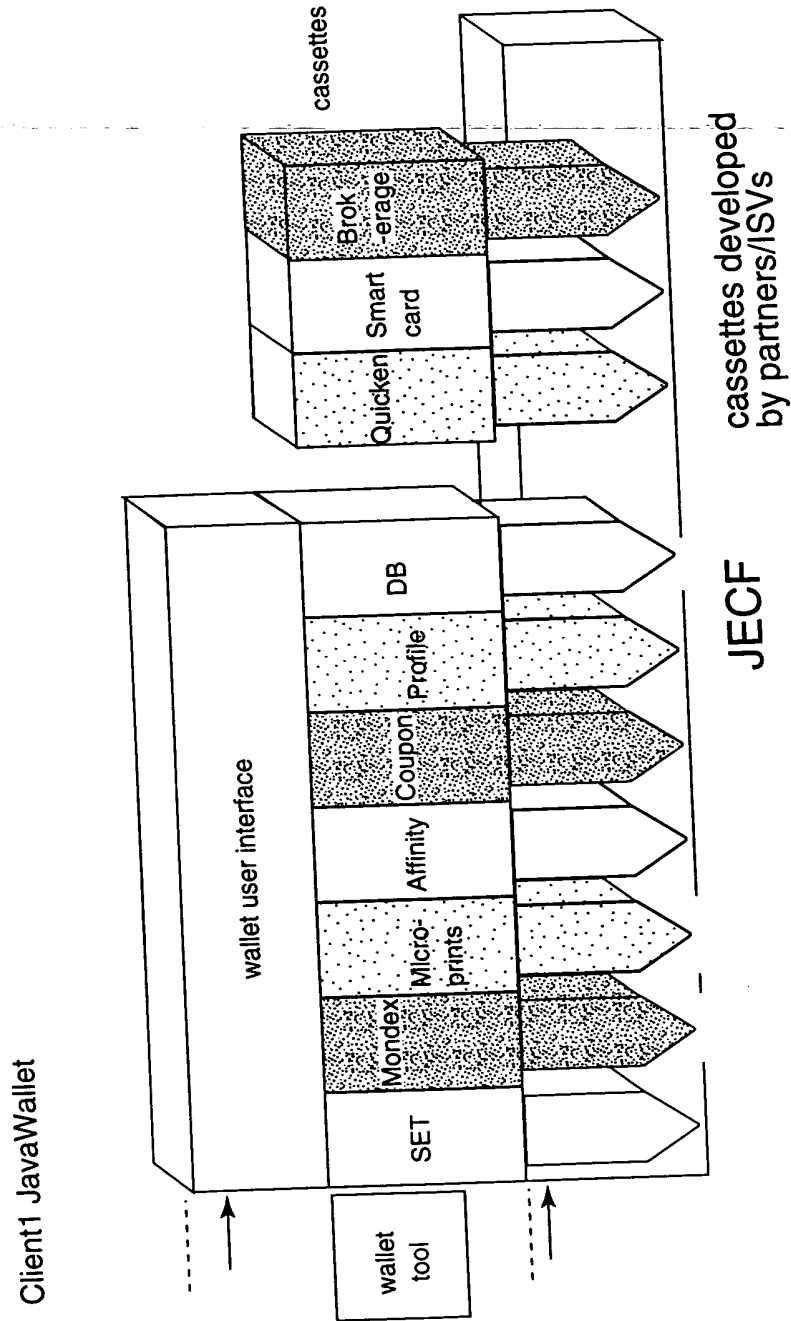


Fig. 46



Client1Screen Product Suite

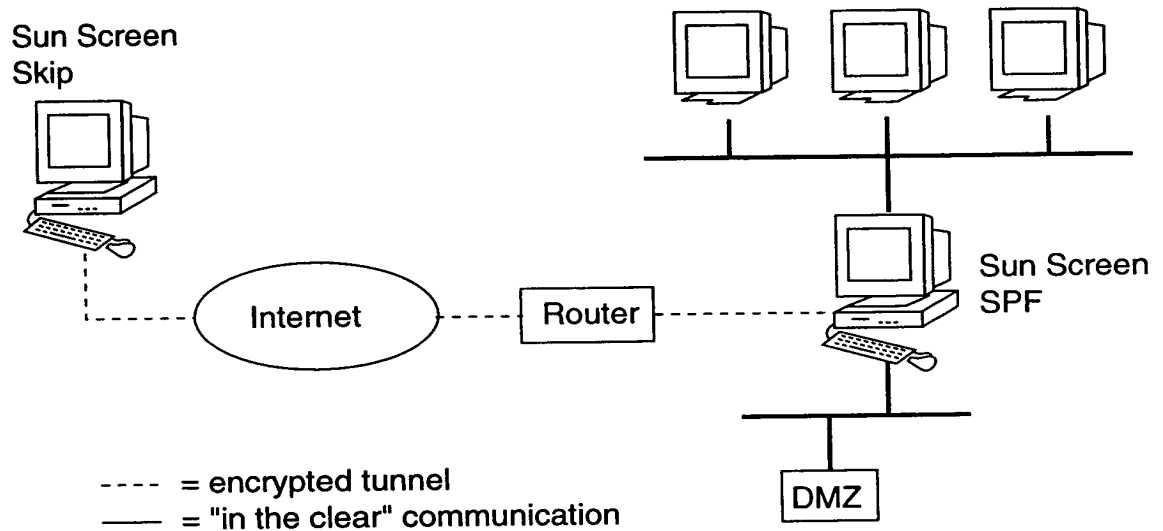


Fig. 47



Netra-Internet Server Bundle

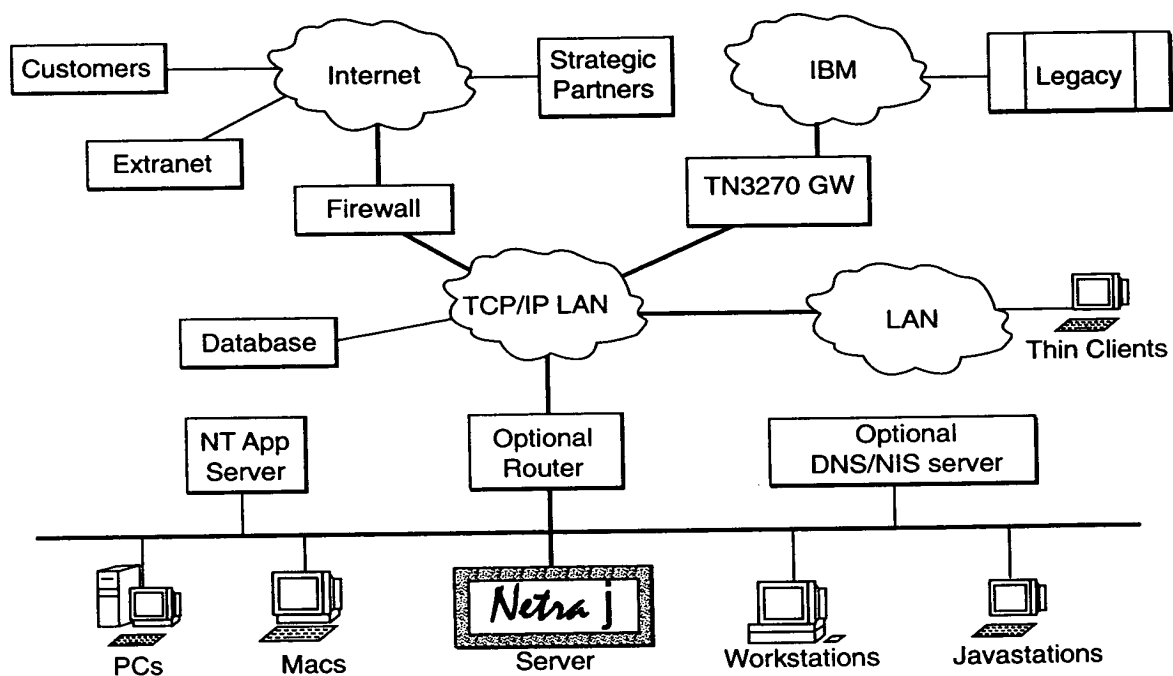


Fig. 48



Solaris ISP Server Bundle

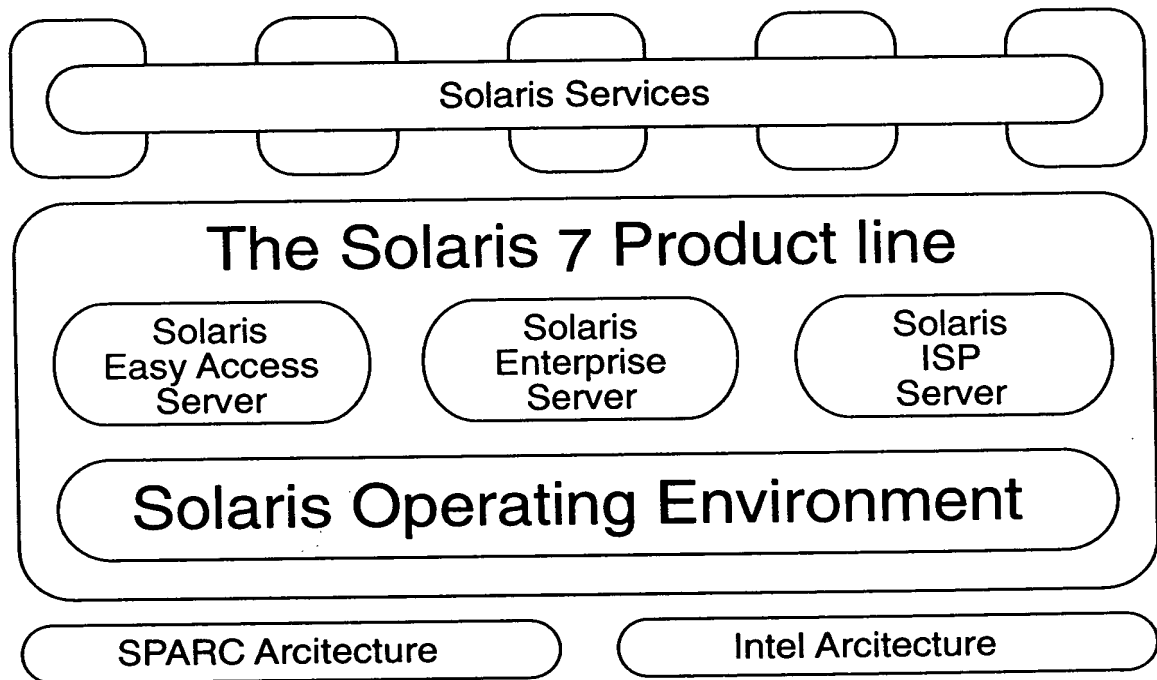


Fig. 49



Development & Testing Tools

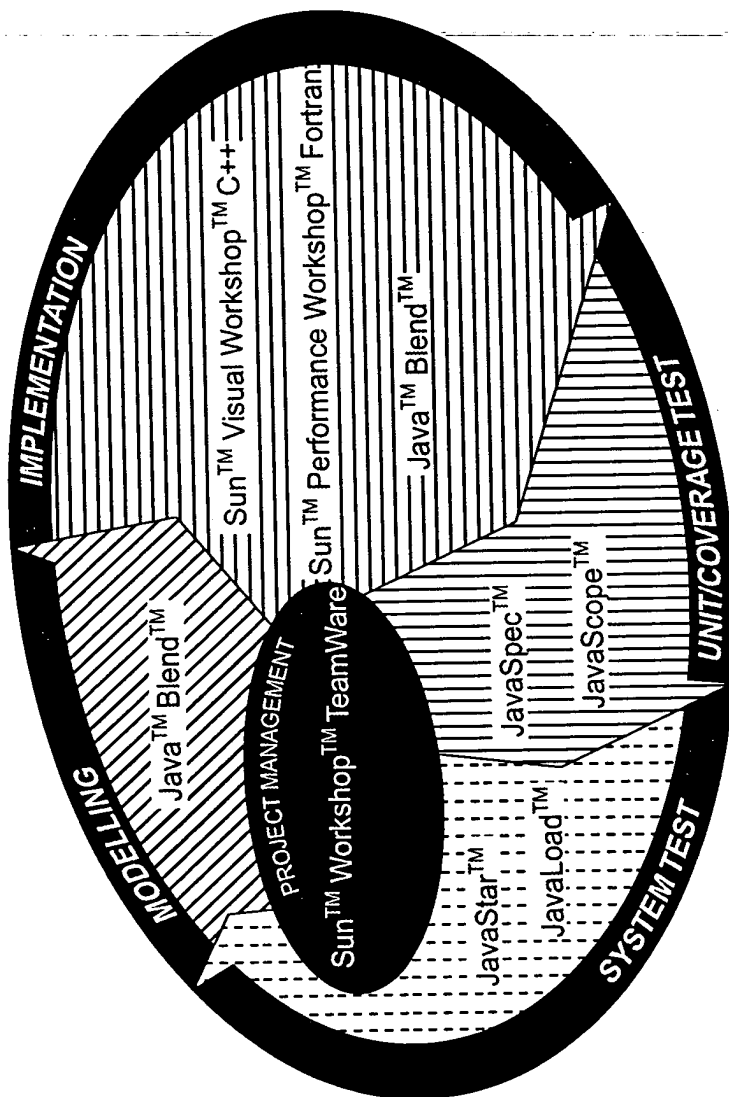


Fig. 50

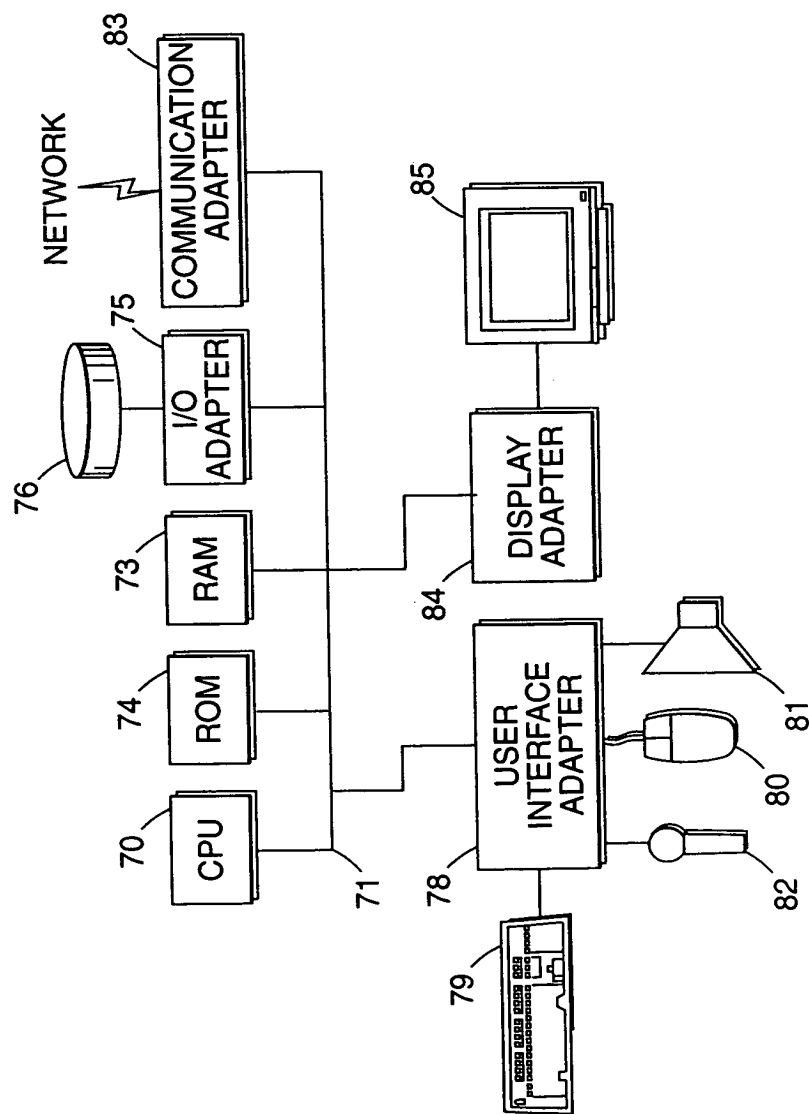


Fig. 51

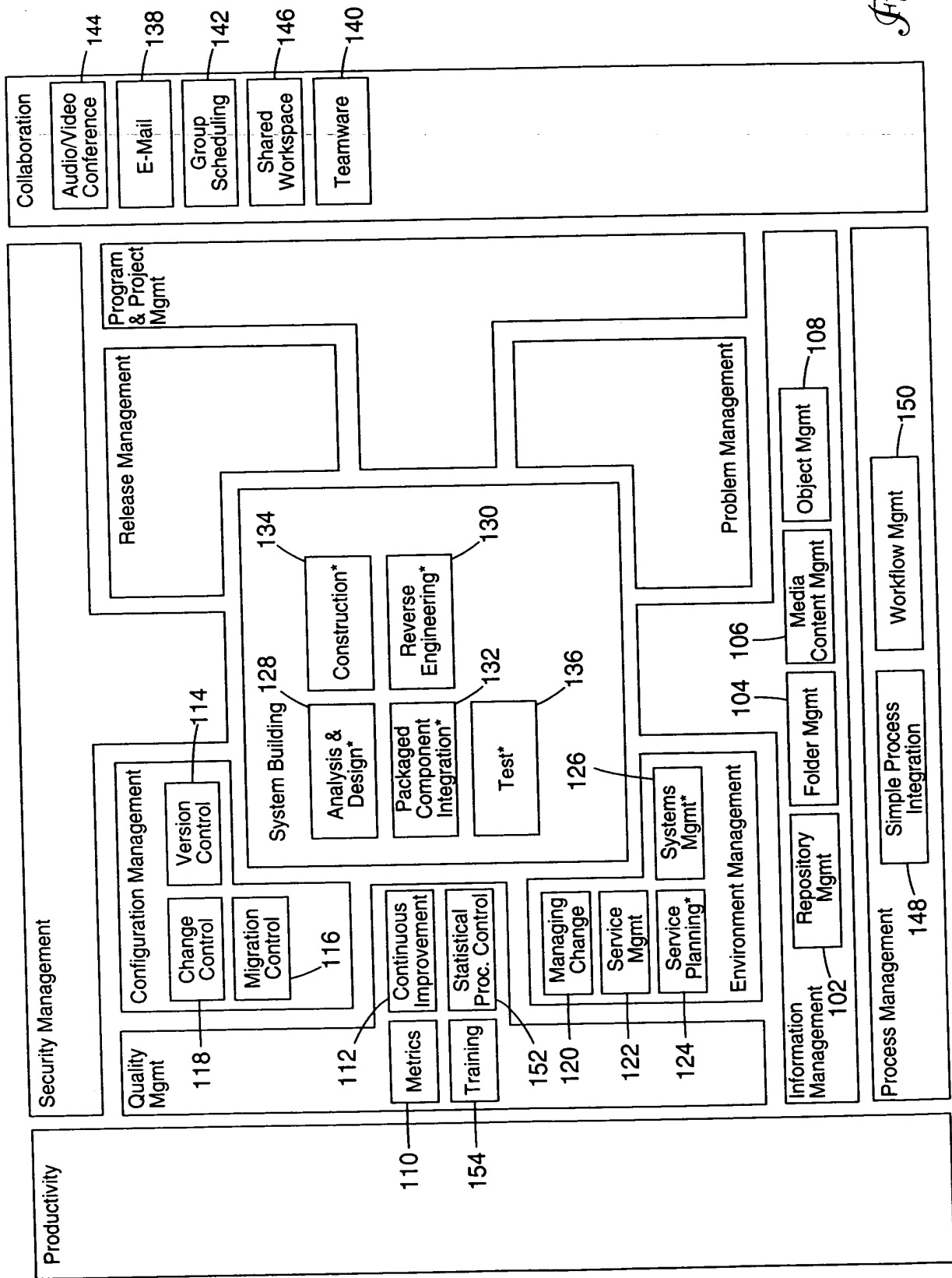


Fig. 52

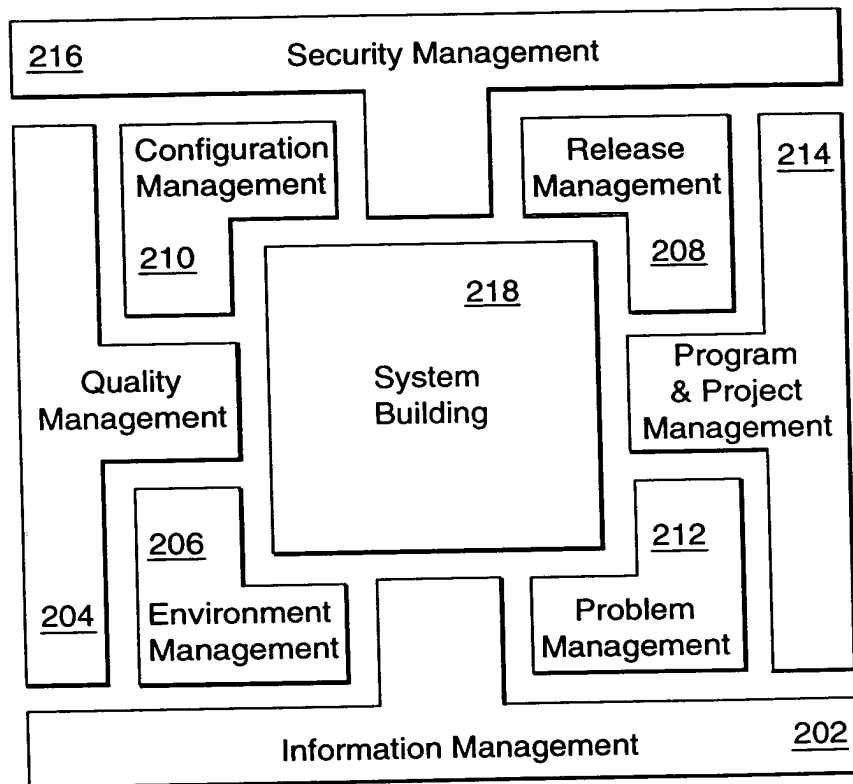


Fig. 53

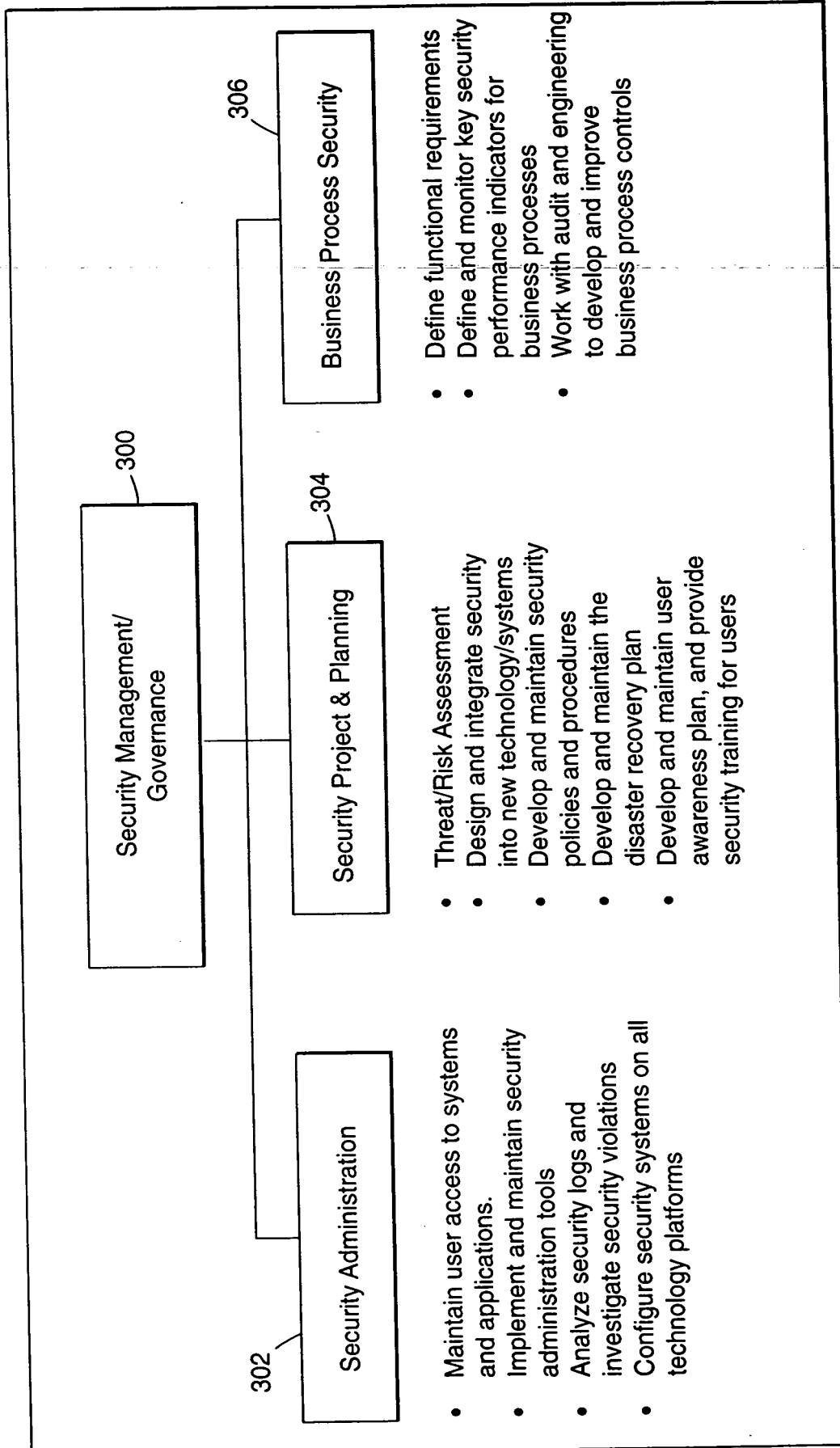


Fig. 54

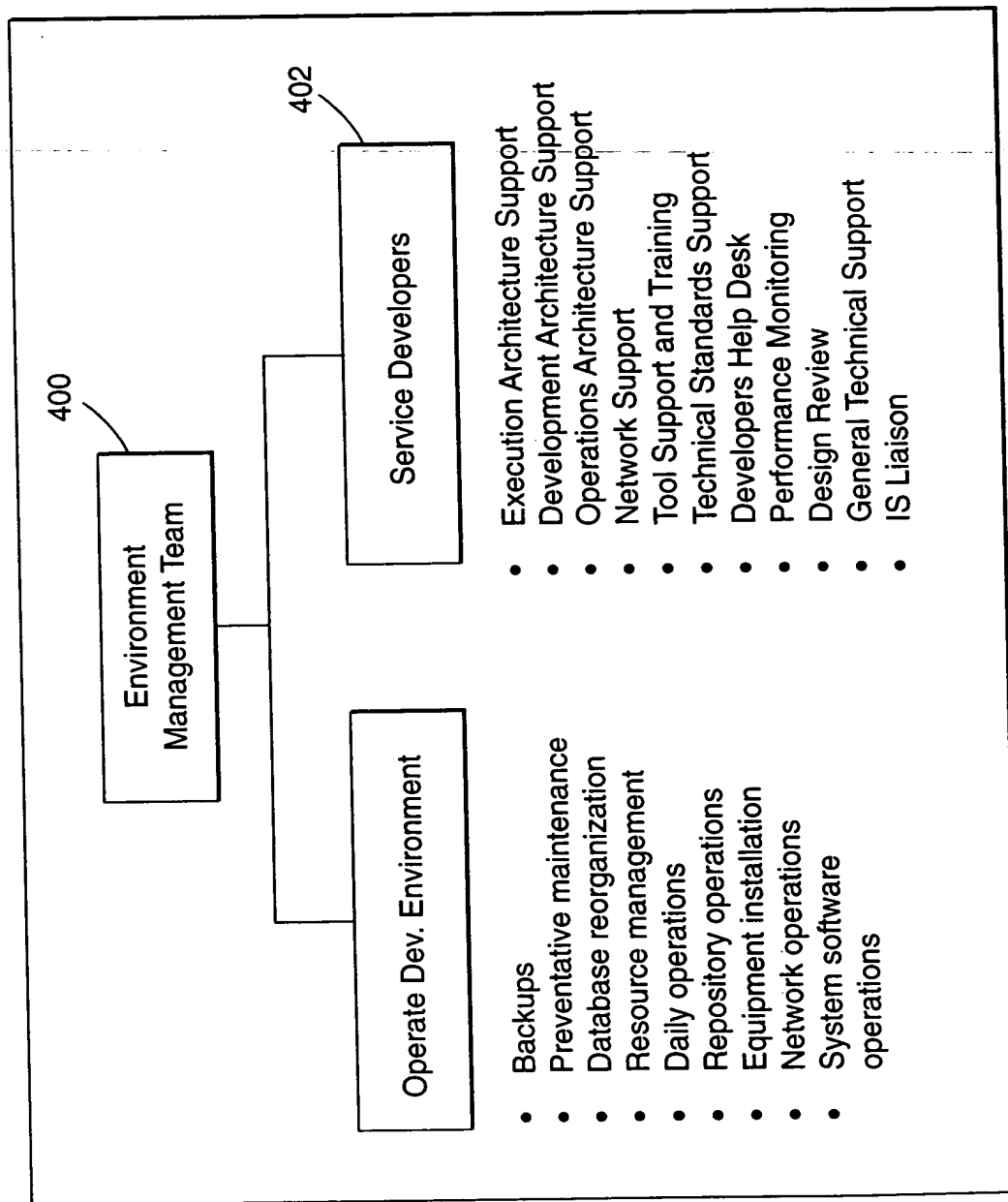


Fig. 55

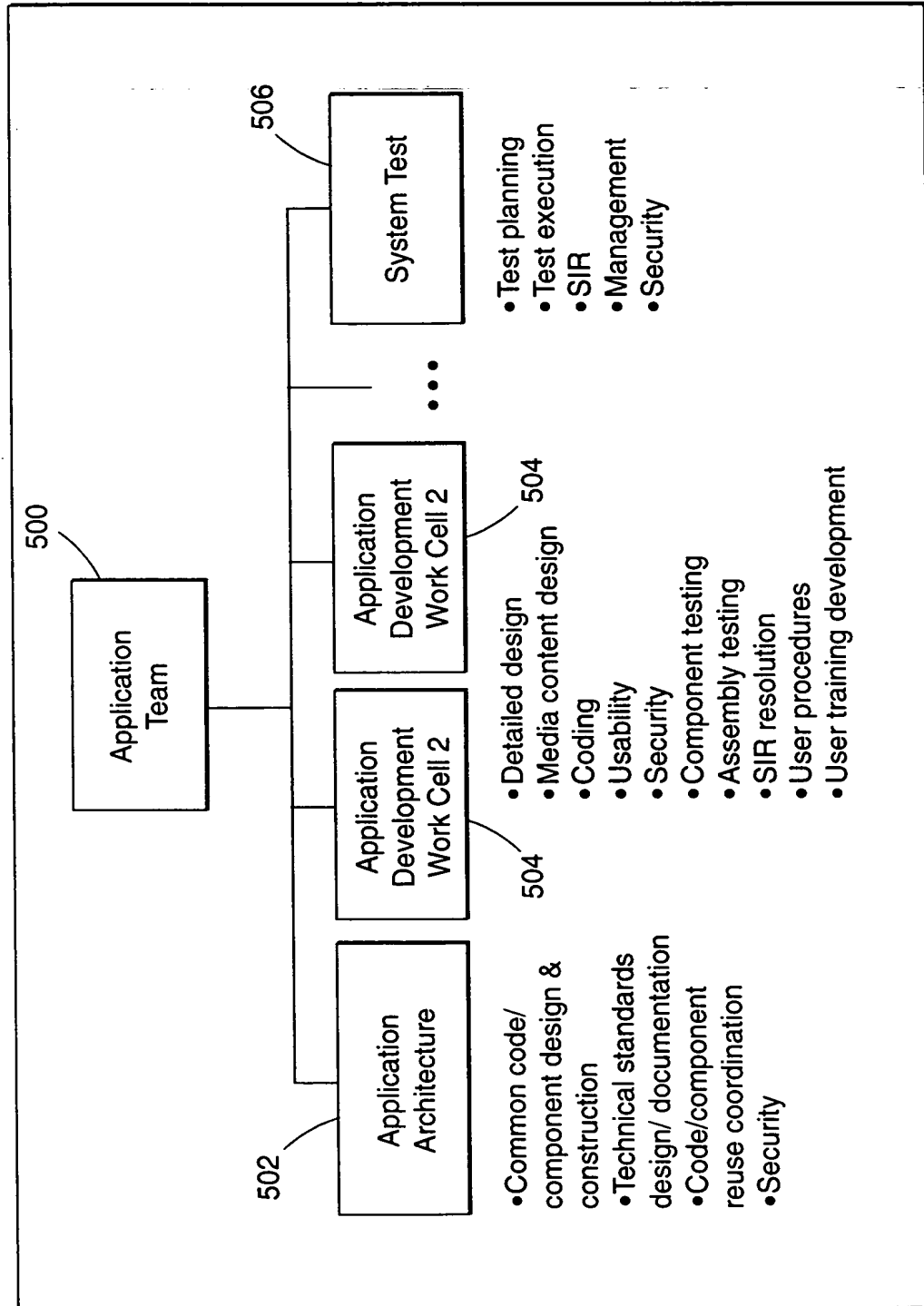


Fig. 56

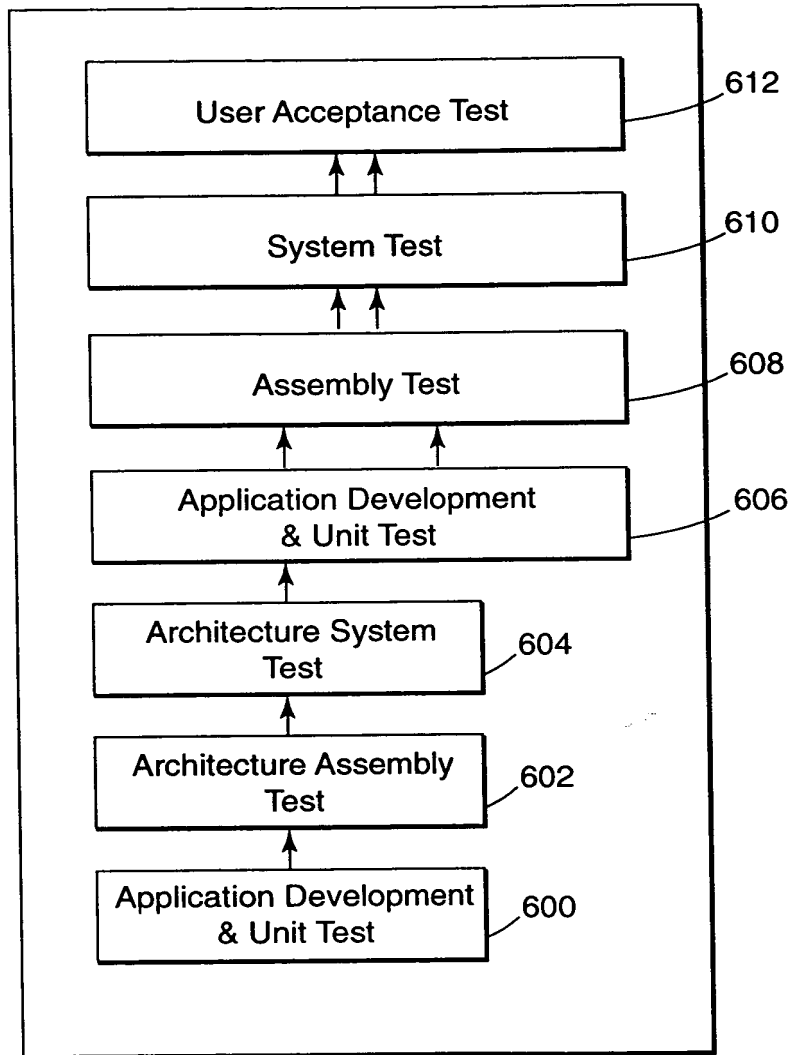


Fig. 57

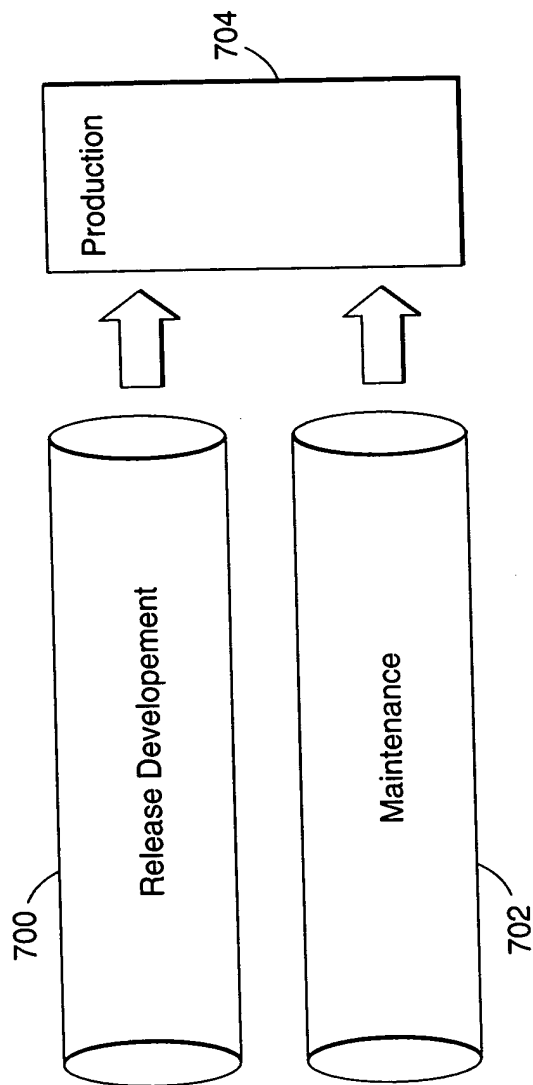


Fig. 58

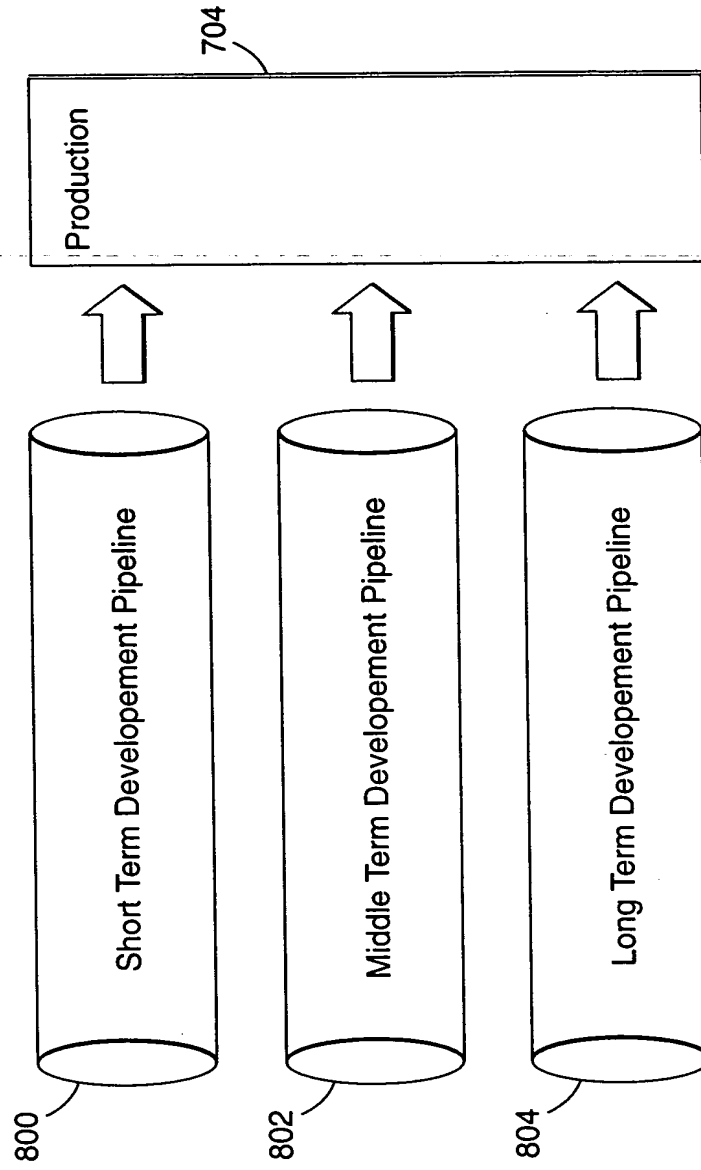


Fig. 59

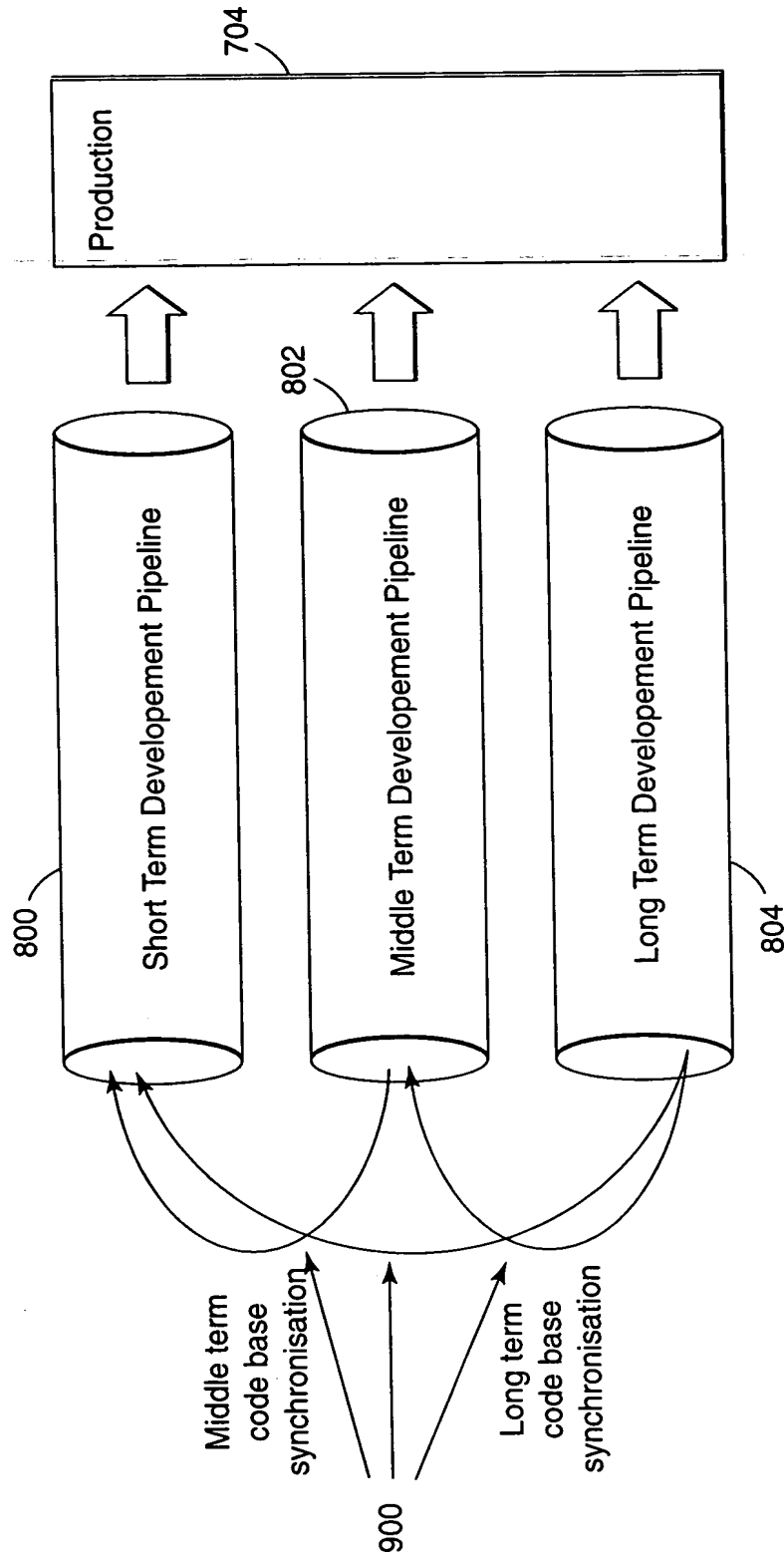


Fig. 60

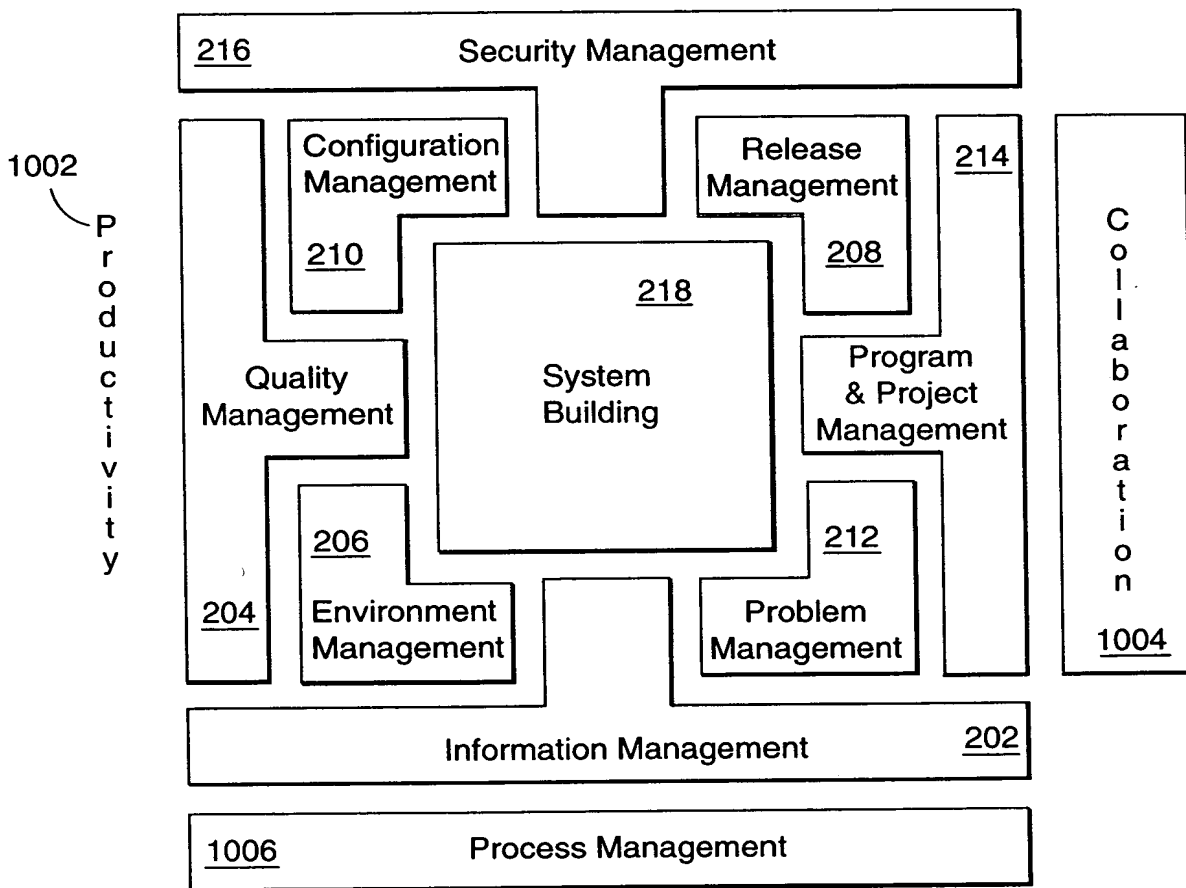


Fig. 61

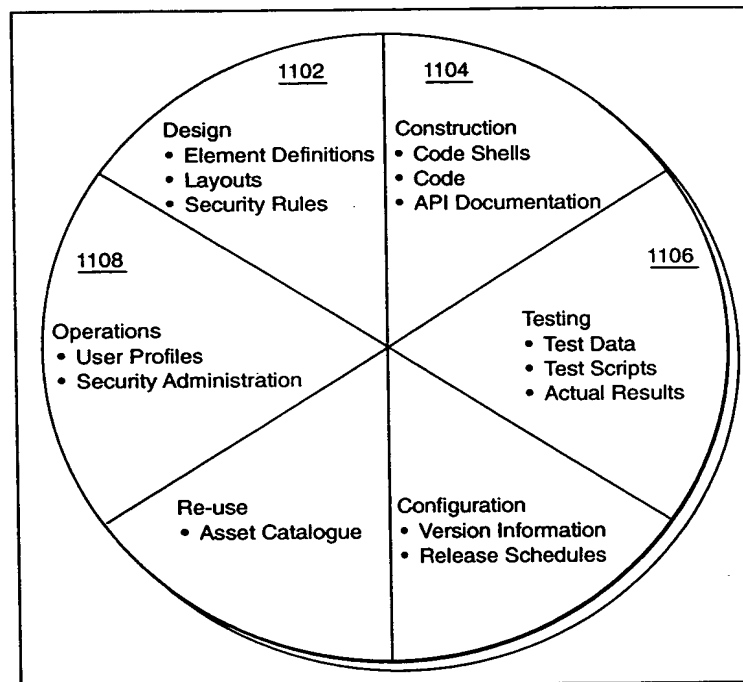


Fig. 62

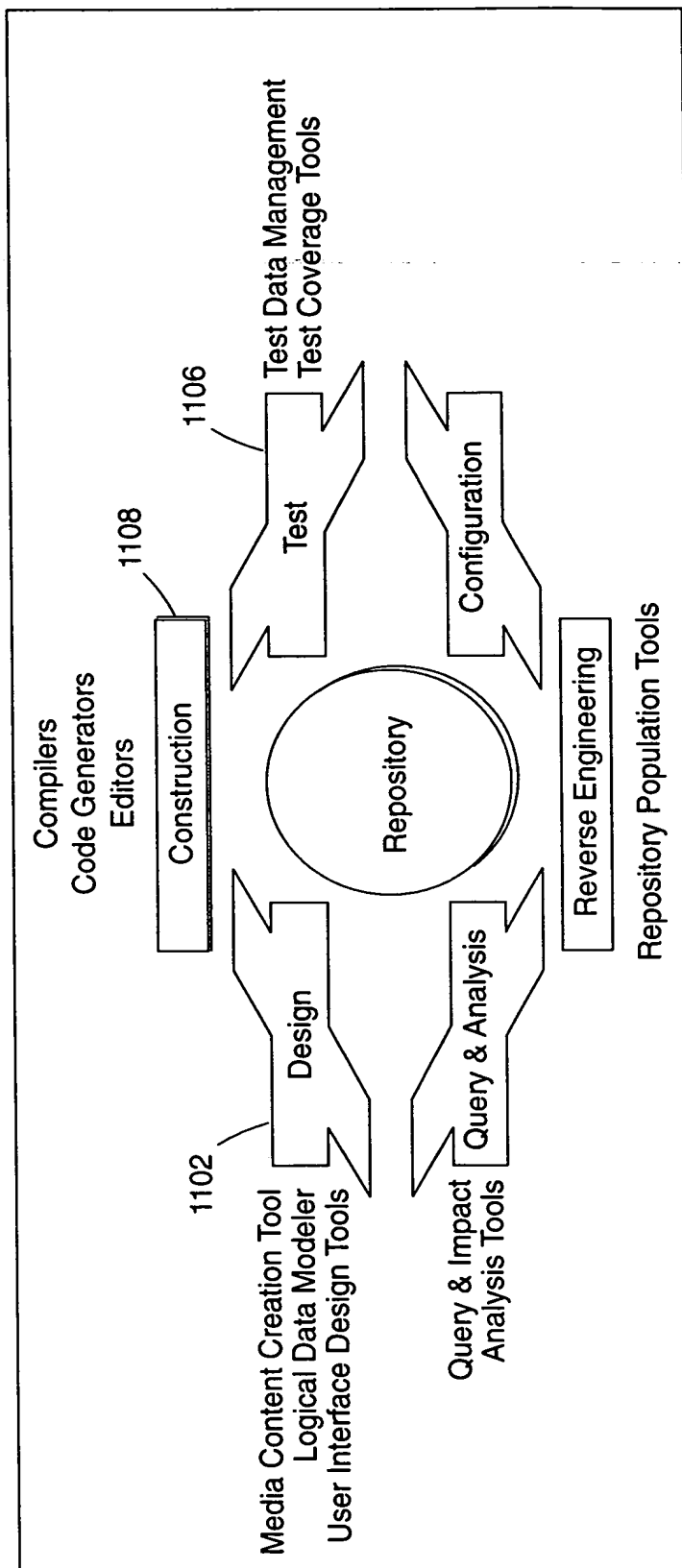


Fig. 63



Inventor: GUHEEN ET AL.
Docket No.: 8567.108US01
Title: WEB-BASED ARCHITECTURE SALES TOOL (AS AMENDED)
Serial No.: 09/322,073
Sheet 136 of 177

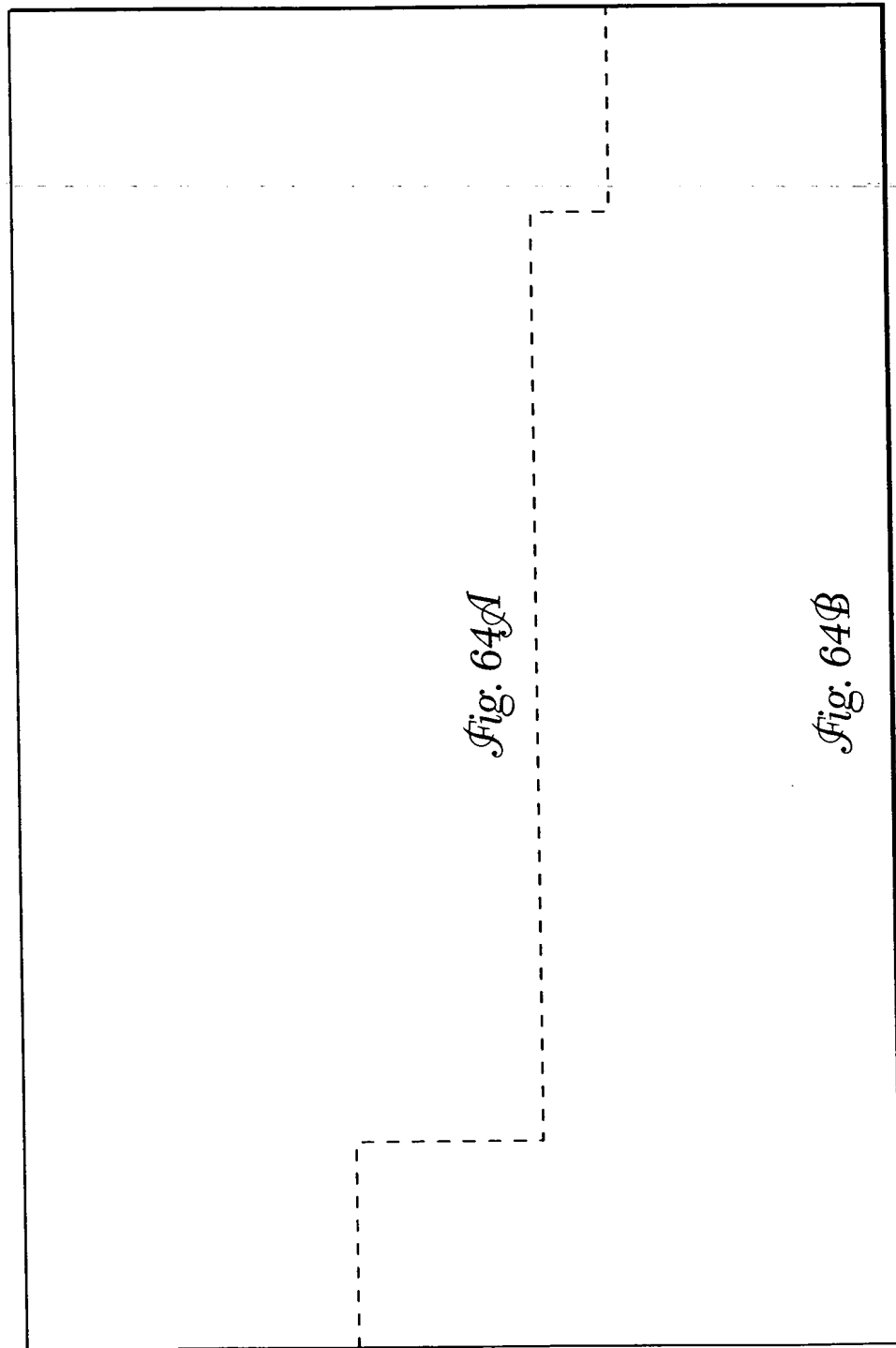


Fig. 64A

Fig. 64B

Fig. 64

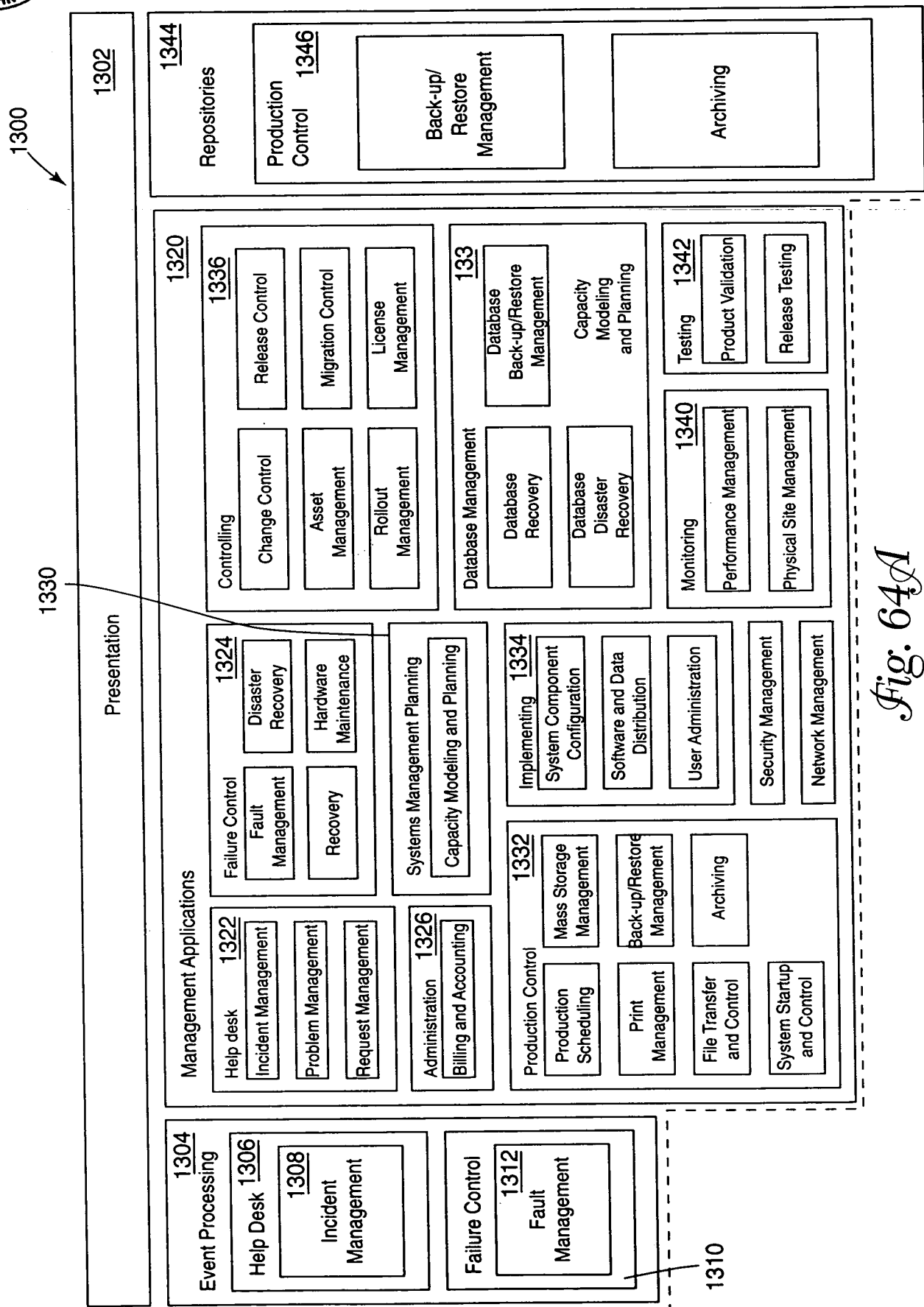


Fig. 64A

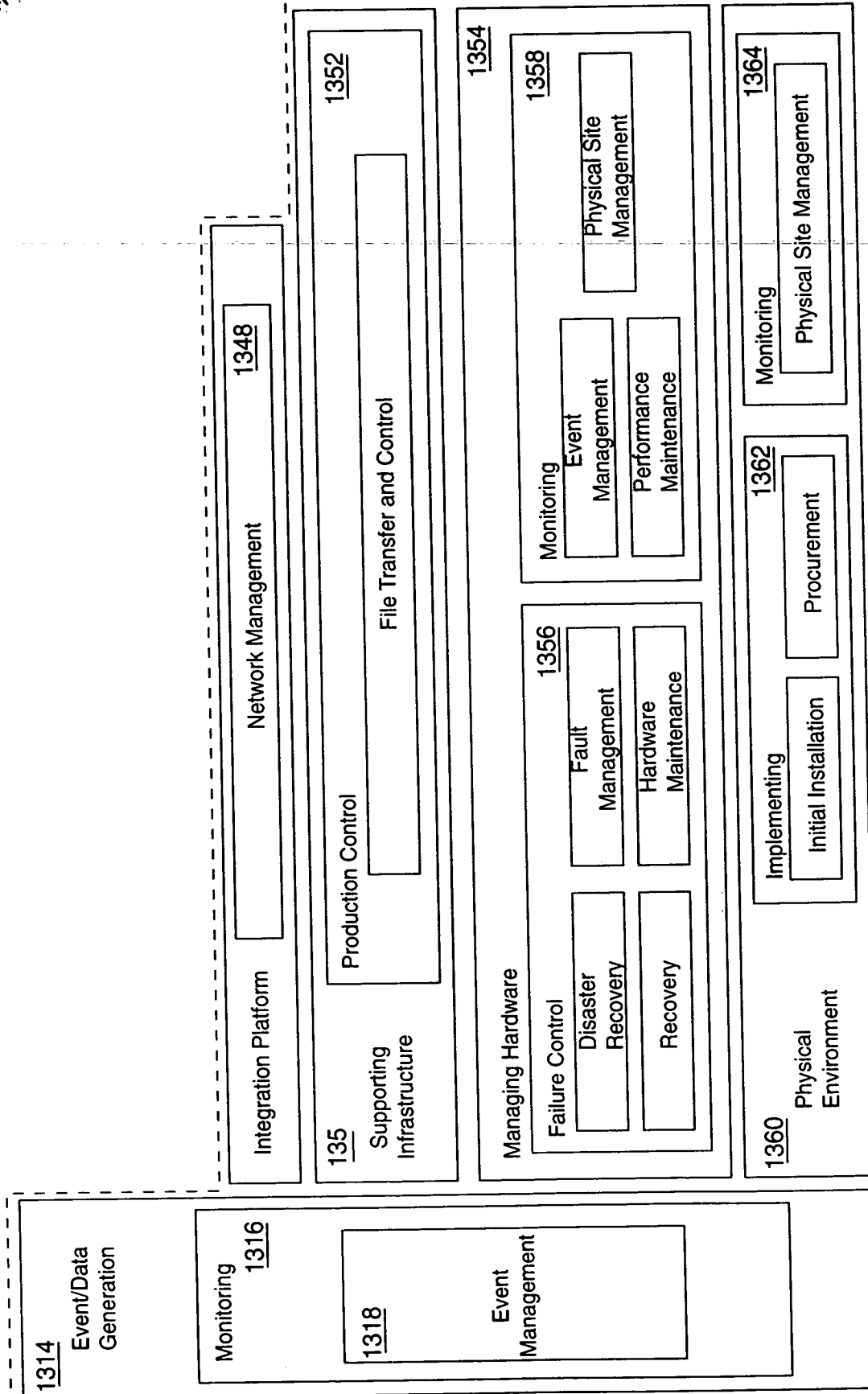


Fig. 64B



Inventor: GUHEEN ET AL.
Docket No.: 8567.108US01
Title: WEB-BASED ARCHITECTURE SALES TOOL (AS AMENDED)
Serial No.: 09/322,073
Sheet 139 of 177

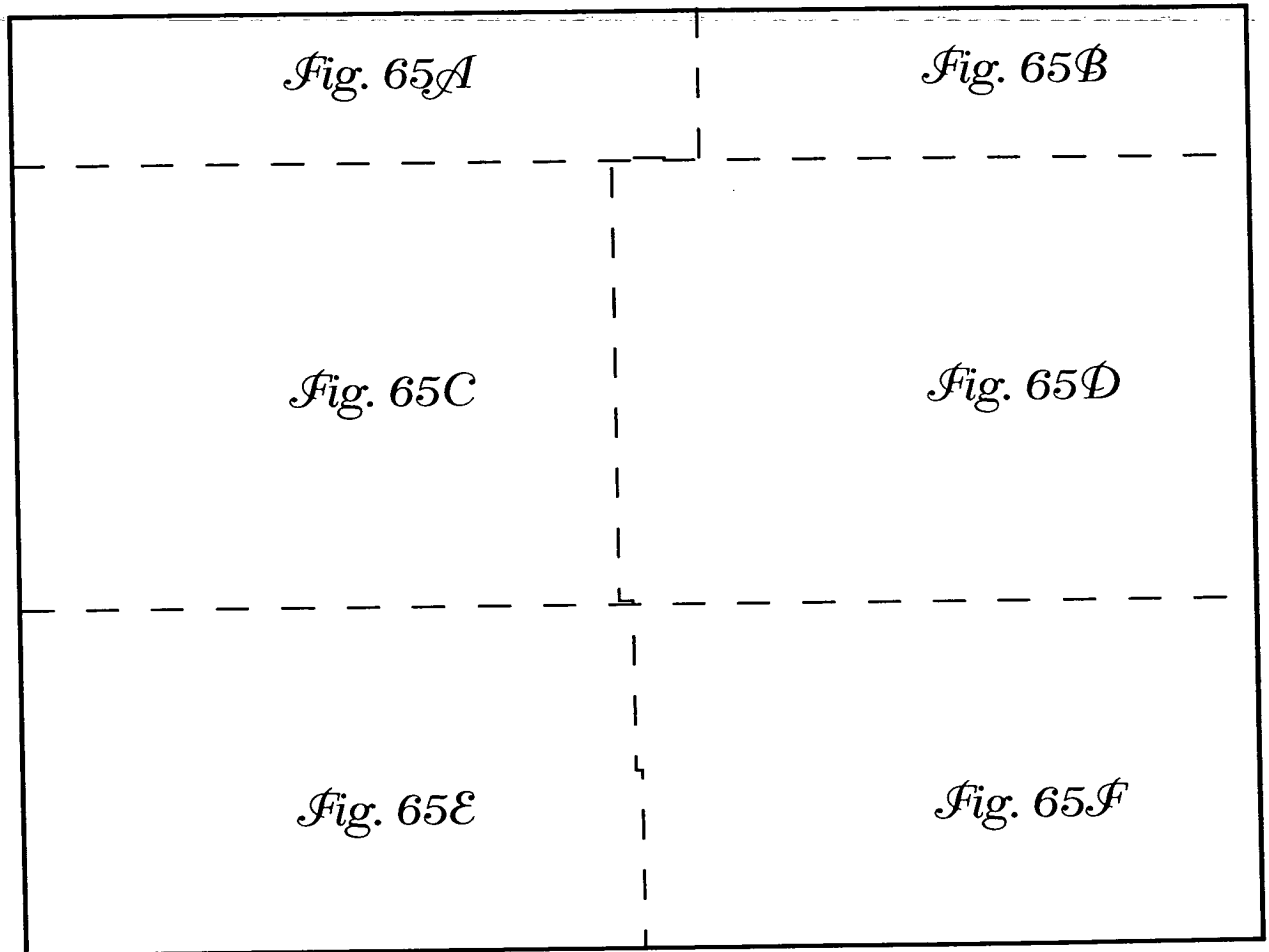


Fig. 65

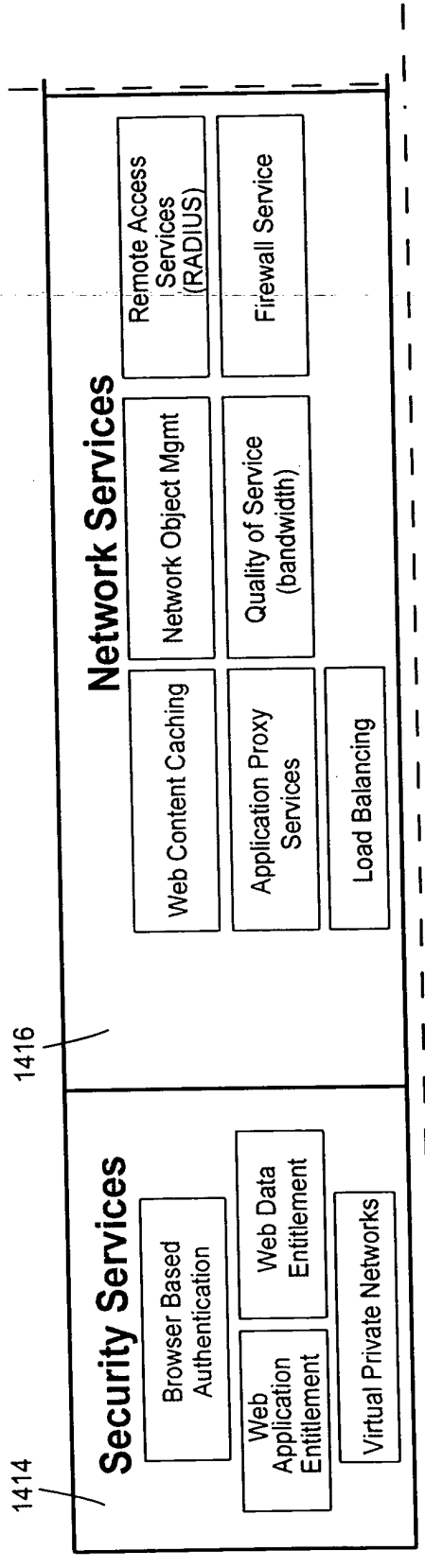


Fig. 65A

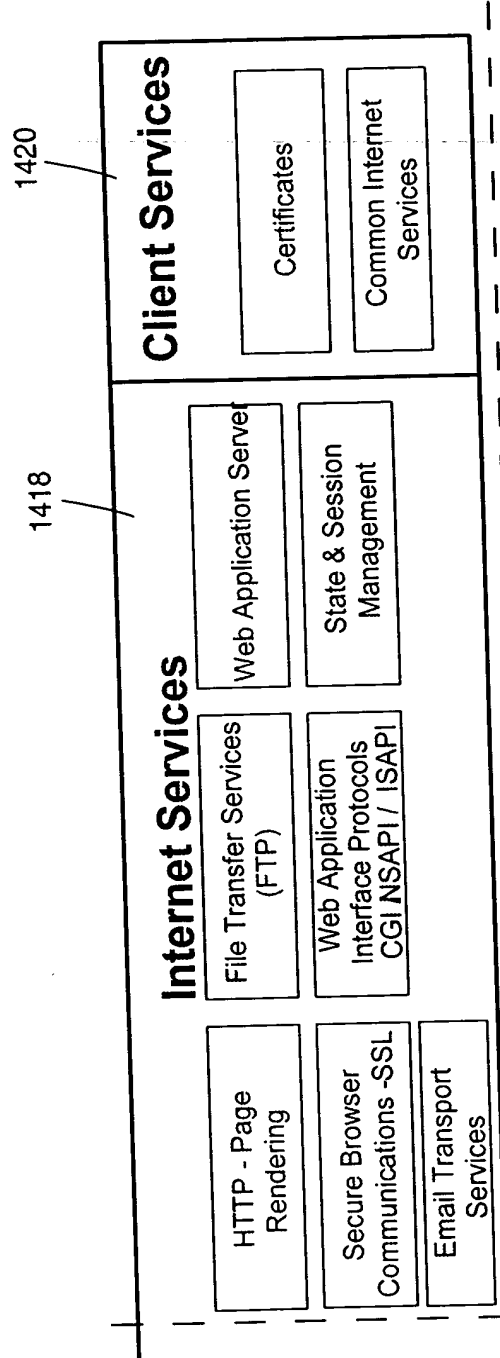
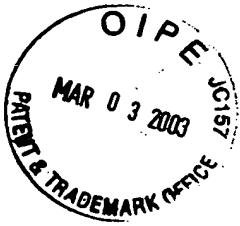


Fig. 65B

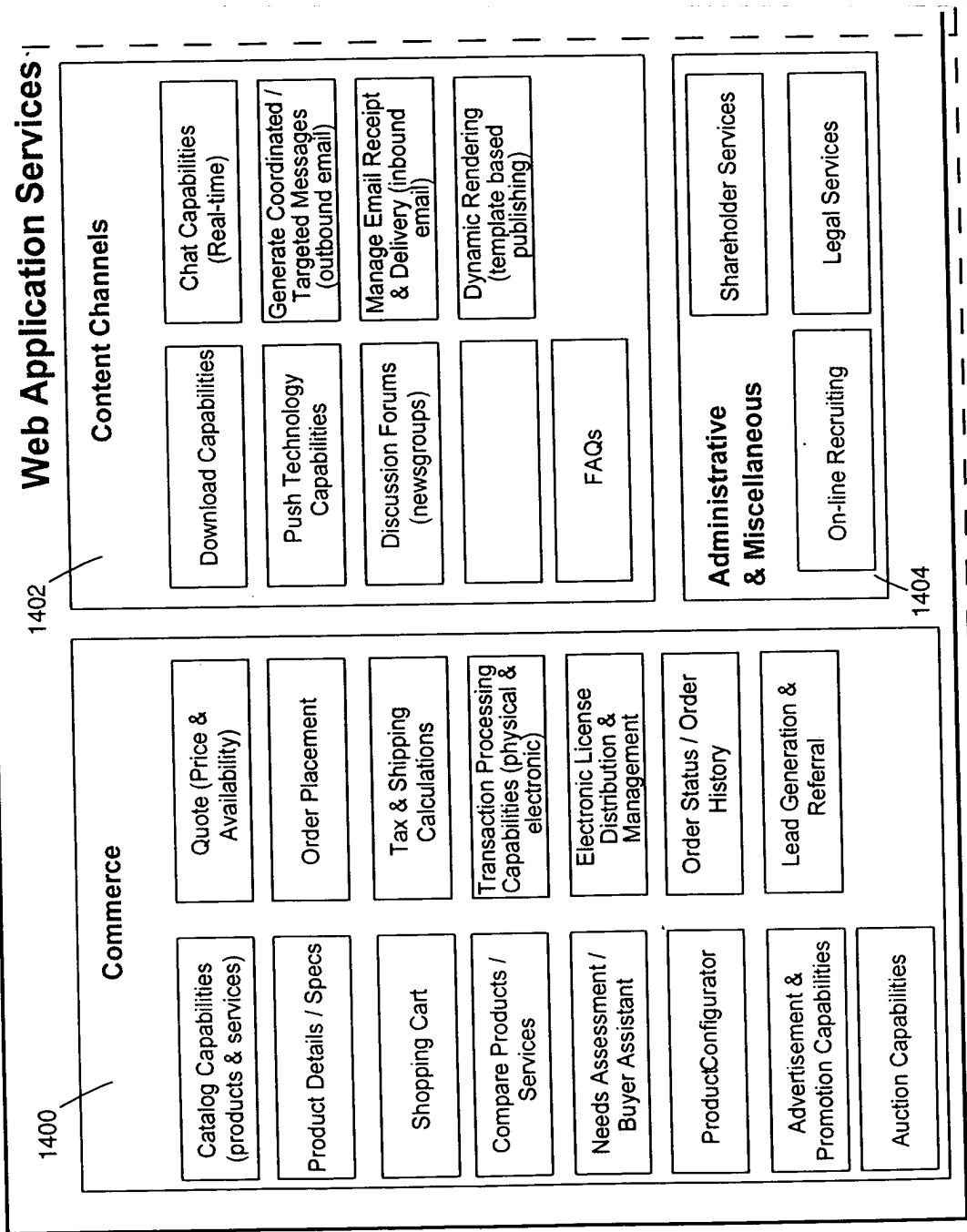


Fig. 65C

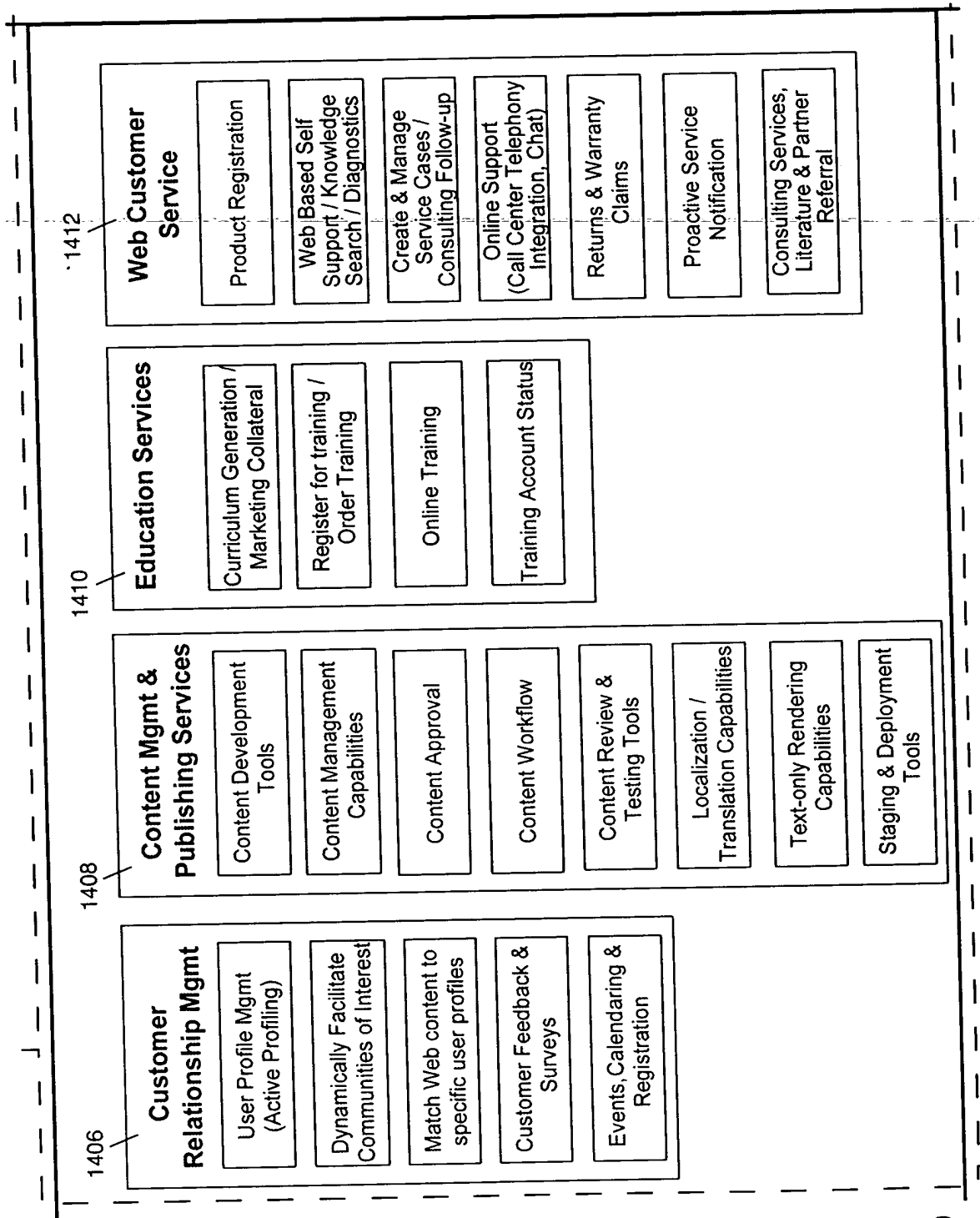
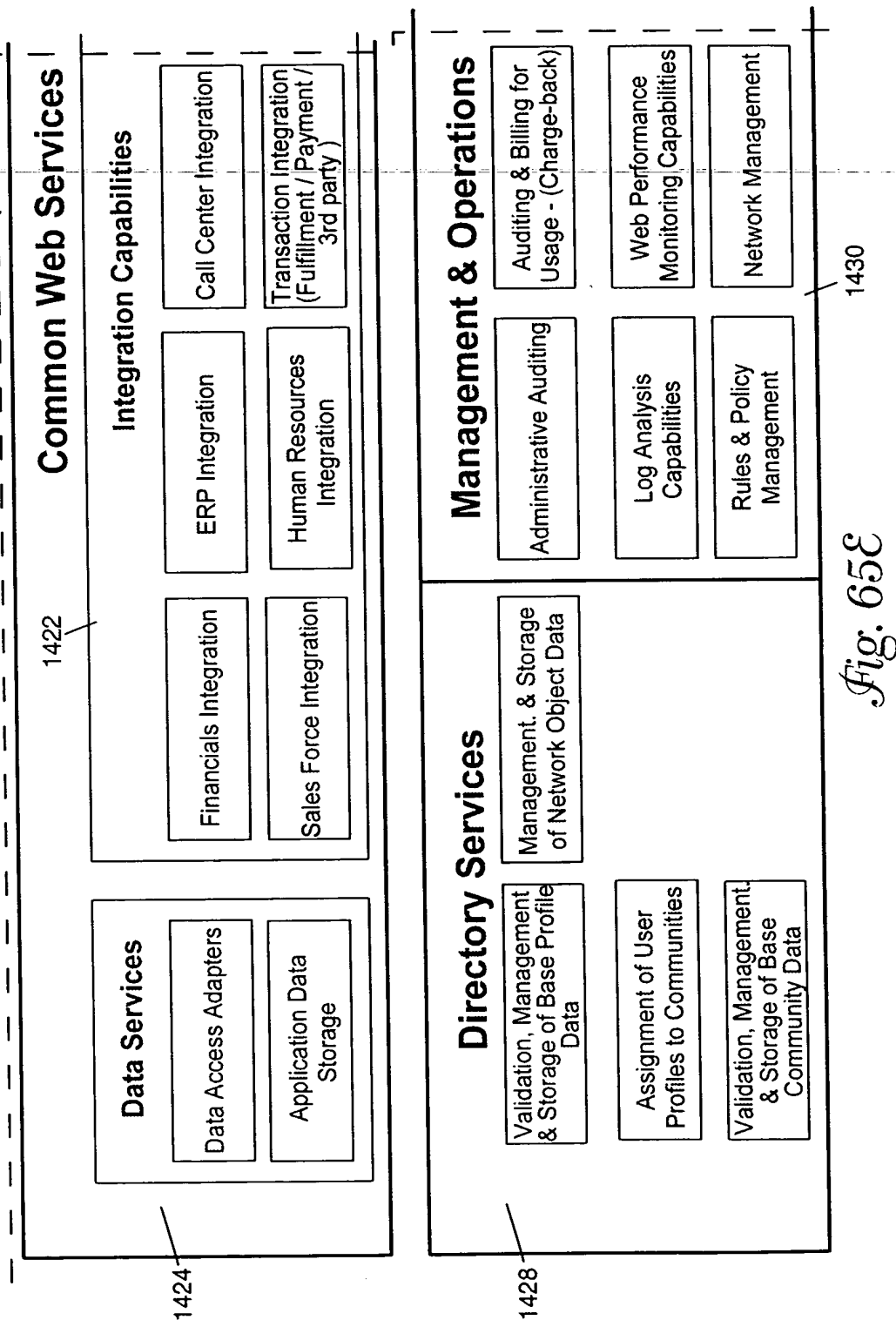


Fig. 65D



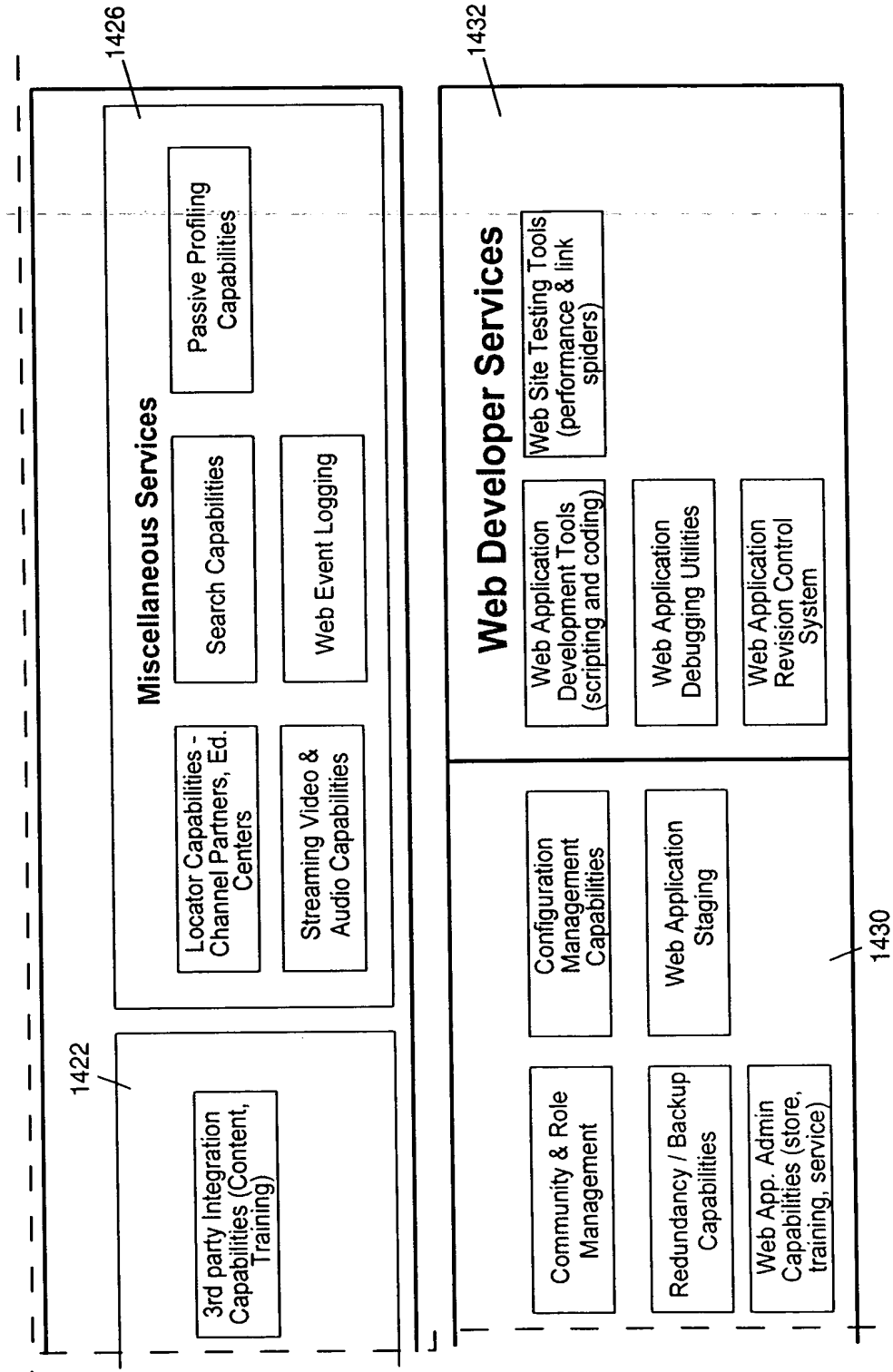


Fig. 65F

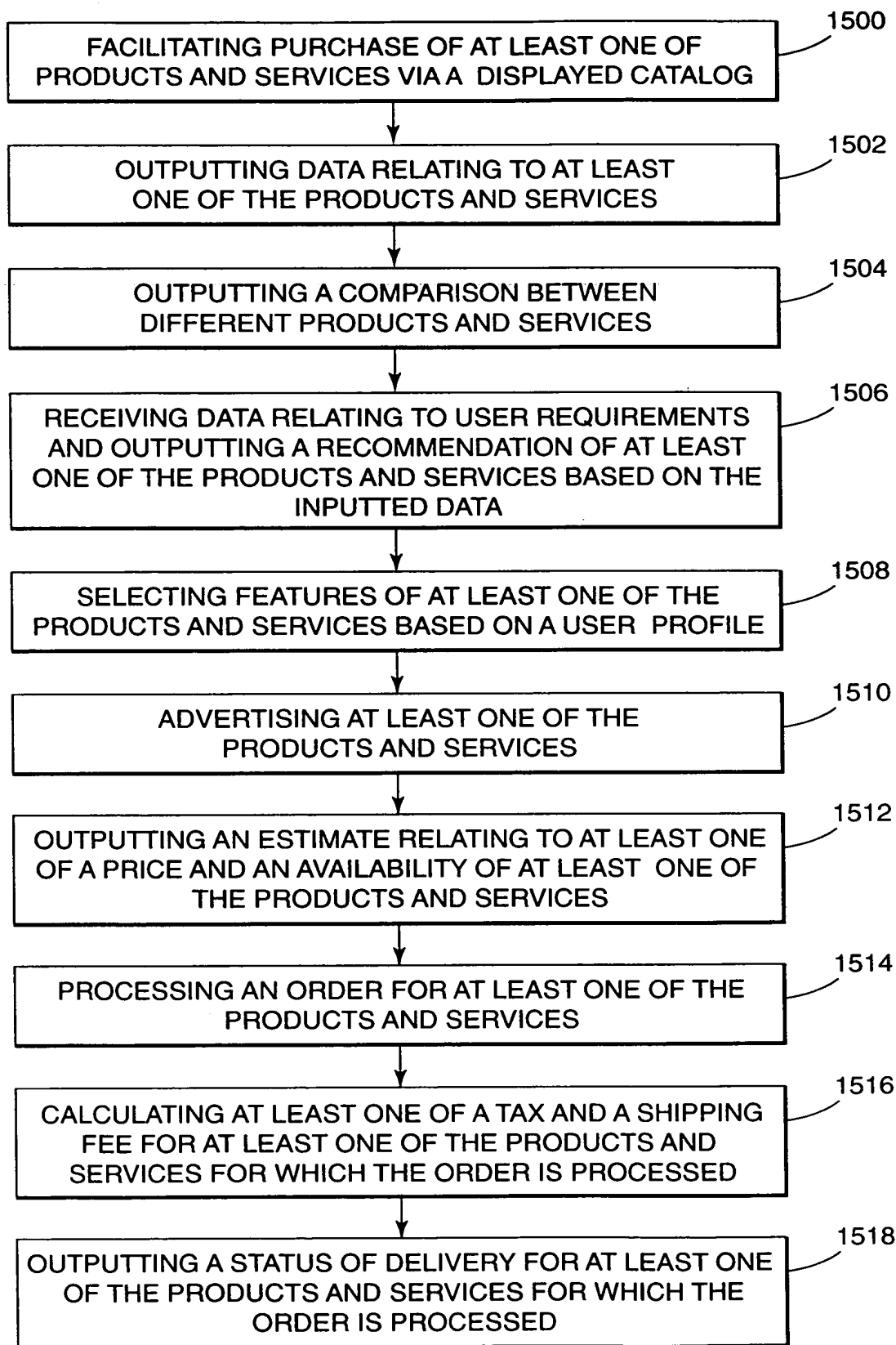
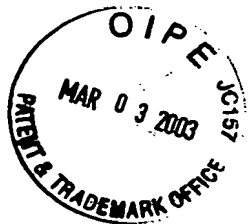


Fig. 66

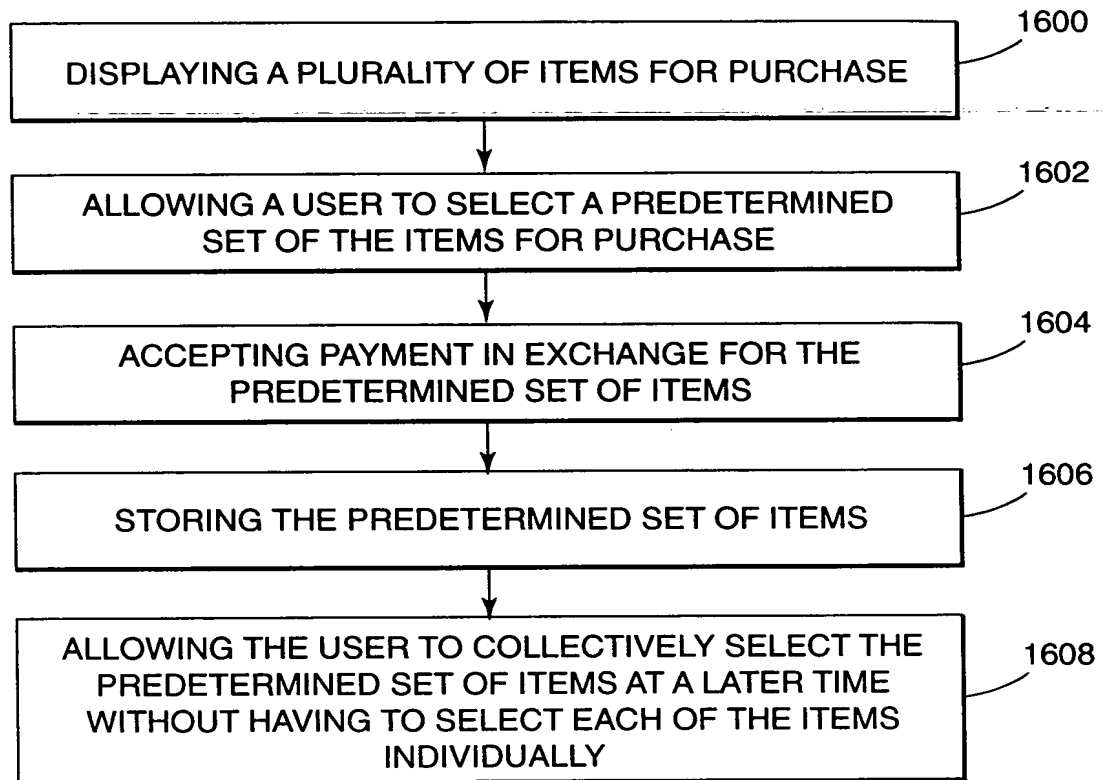


Fig. 67



1504

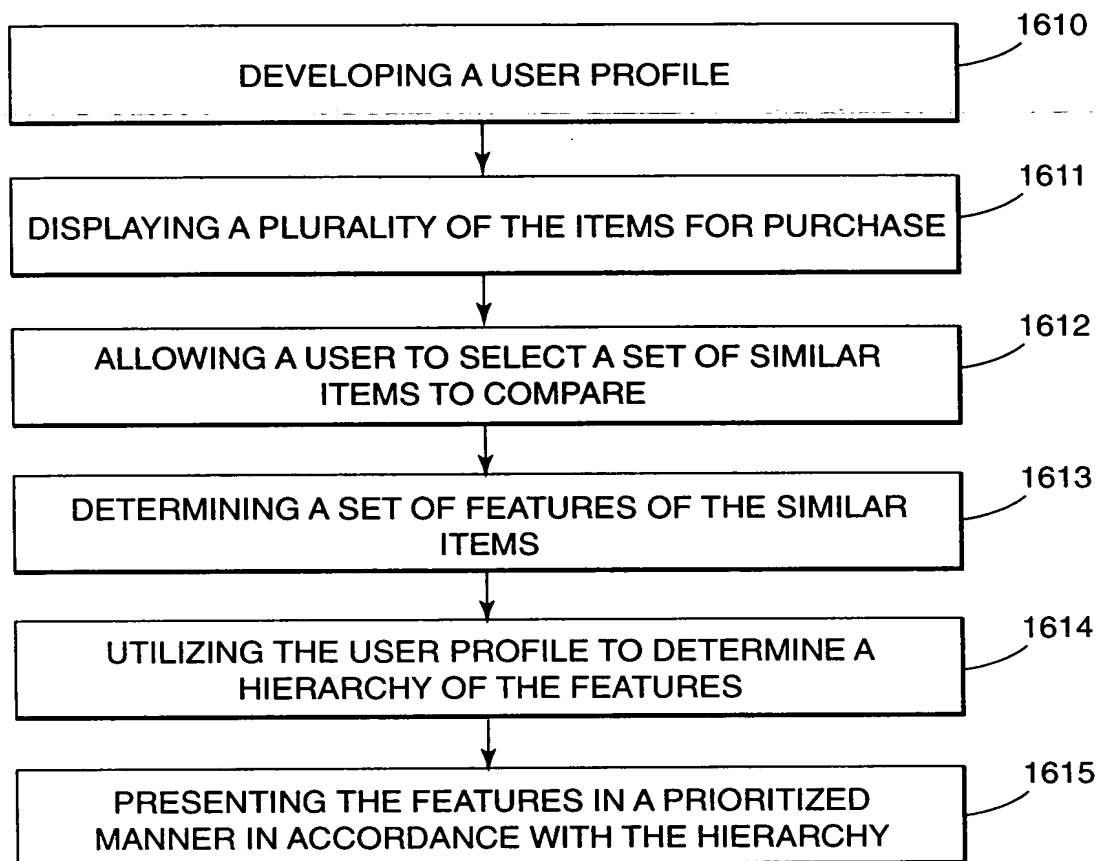


Fig. 68



1614

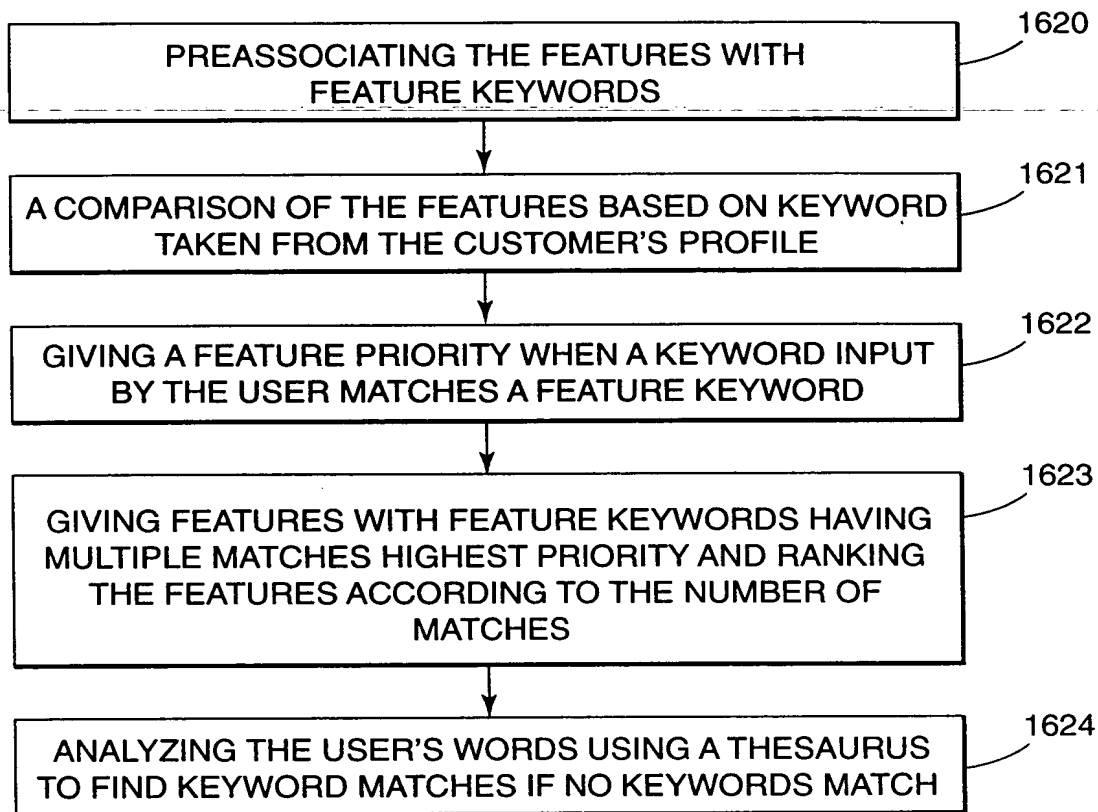


Fig. 69

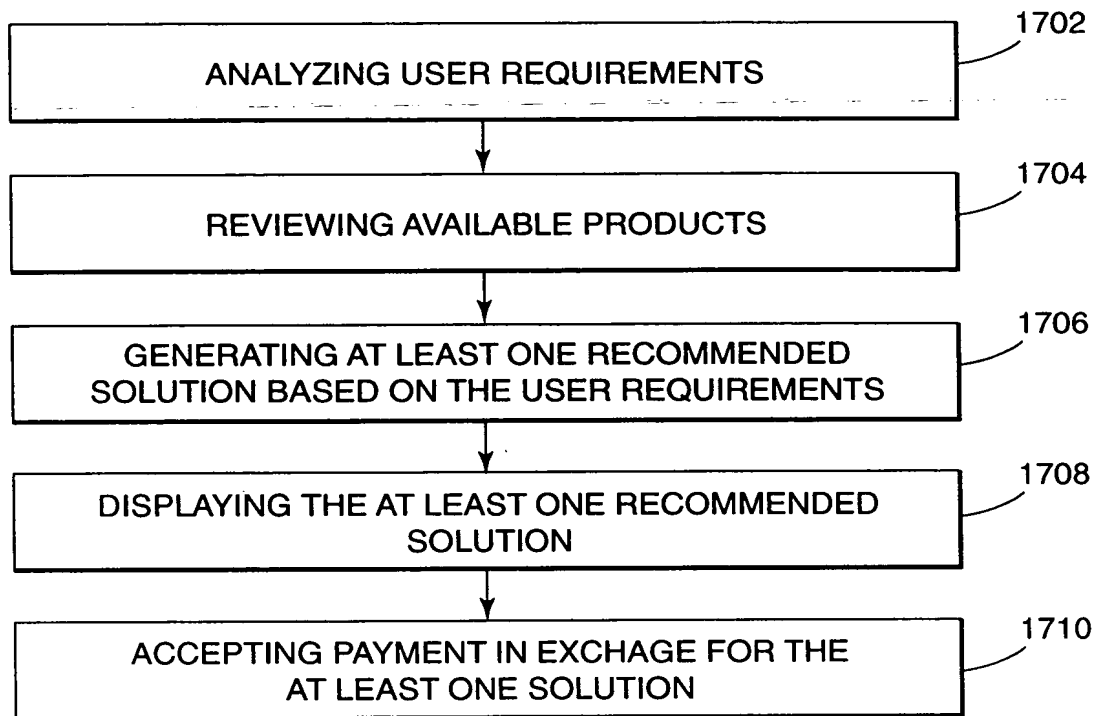
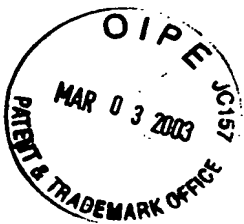


Fig. 70

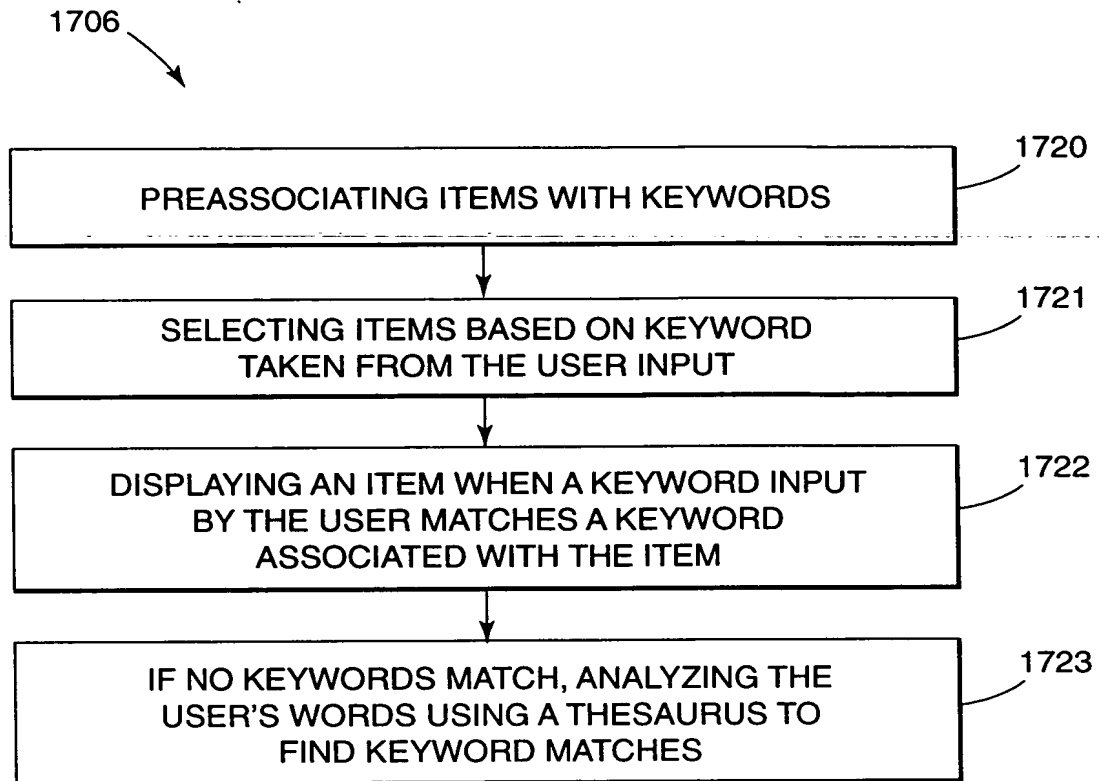


Fig. 71

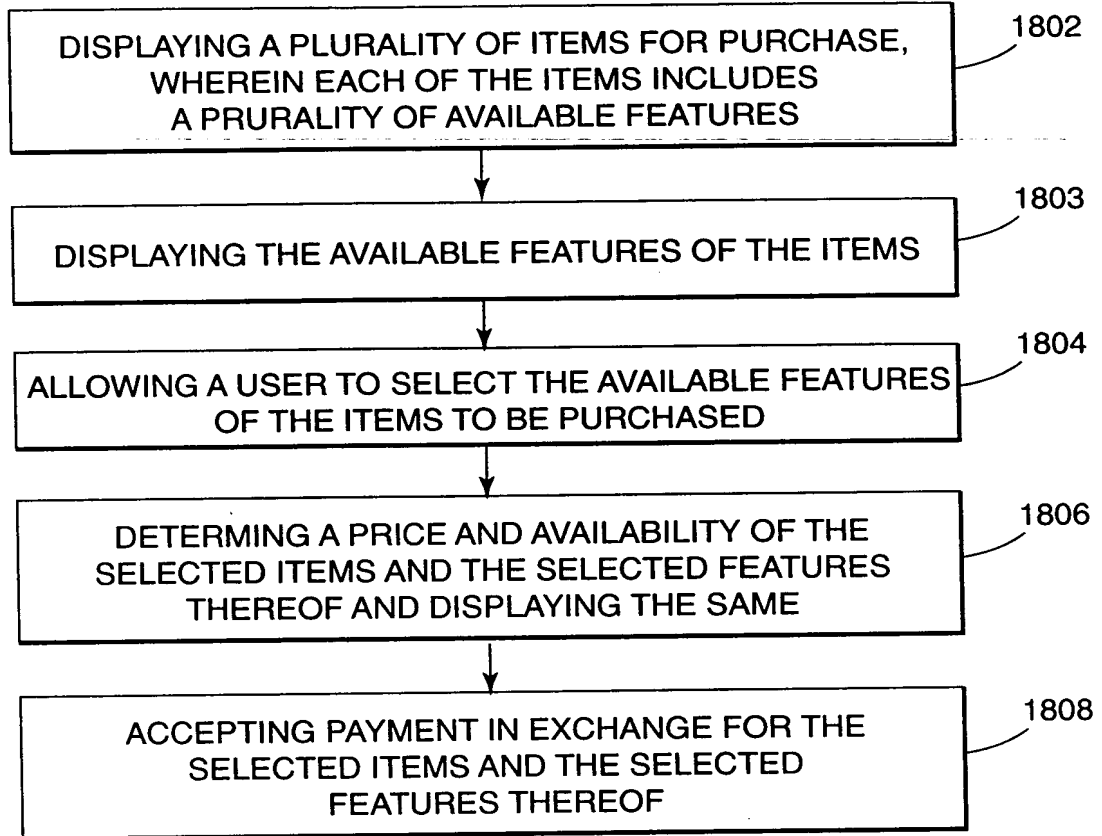


Fig. 72

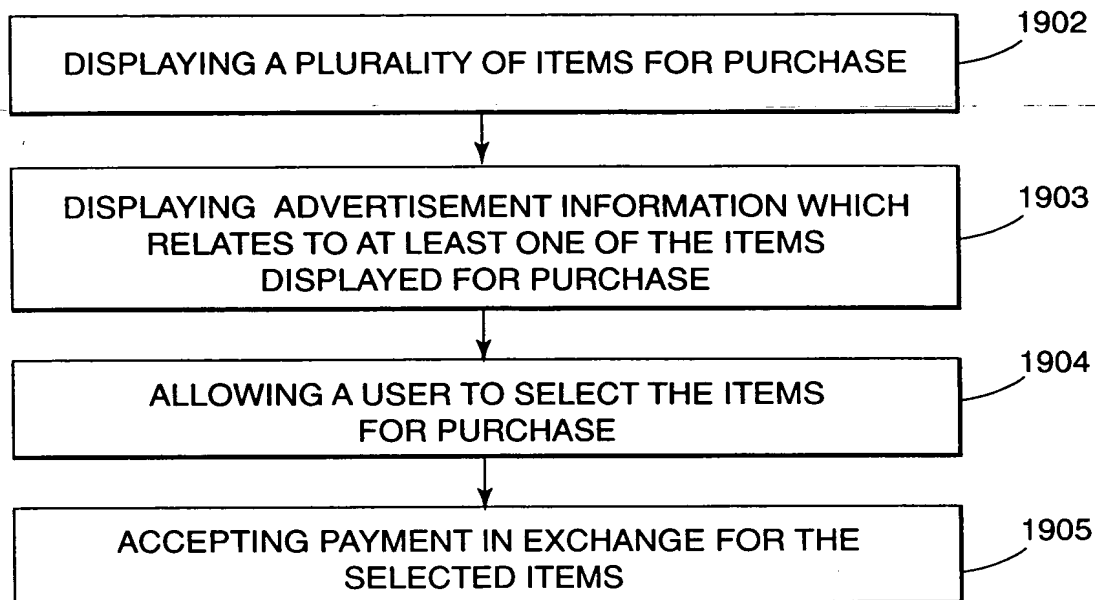


Fig. 73



1903

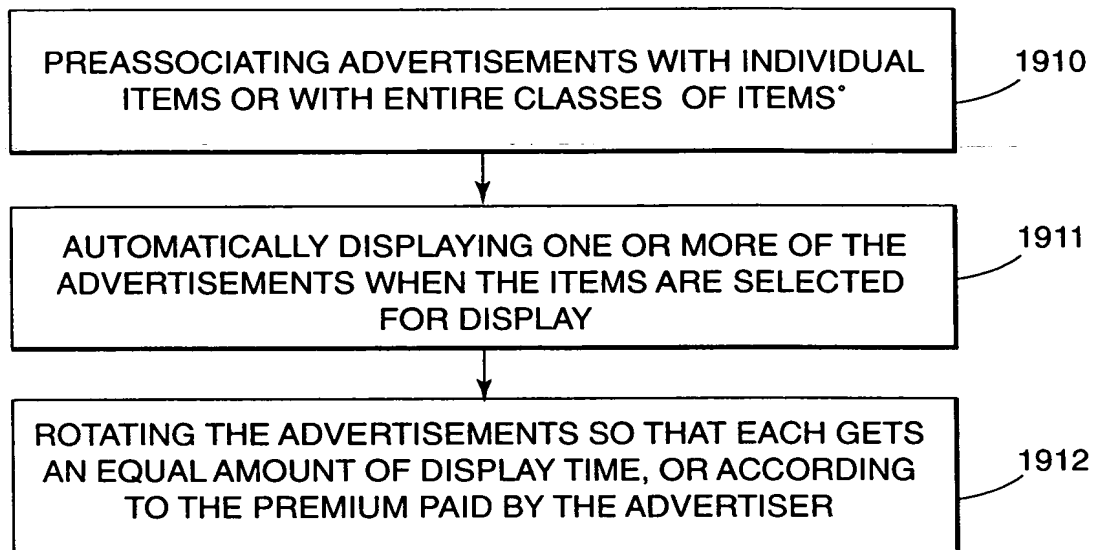


Fig. 74

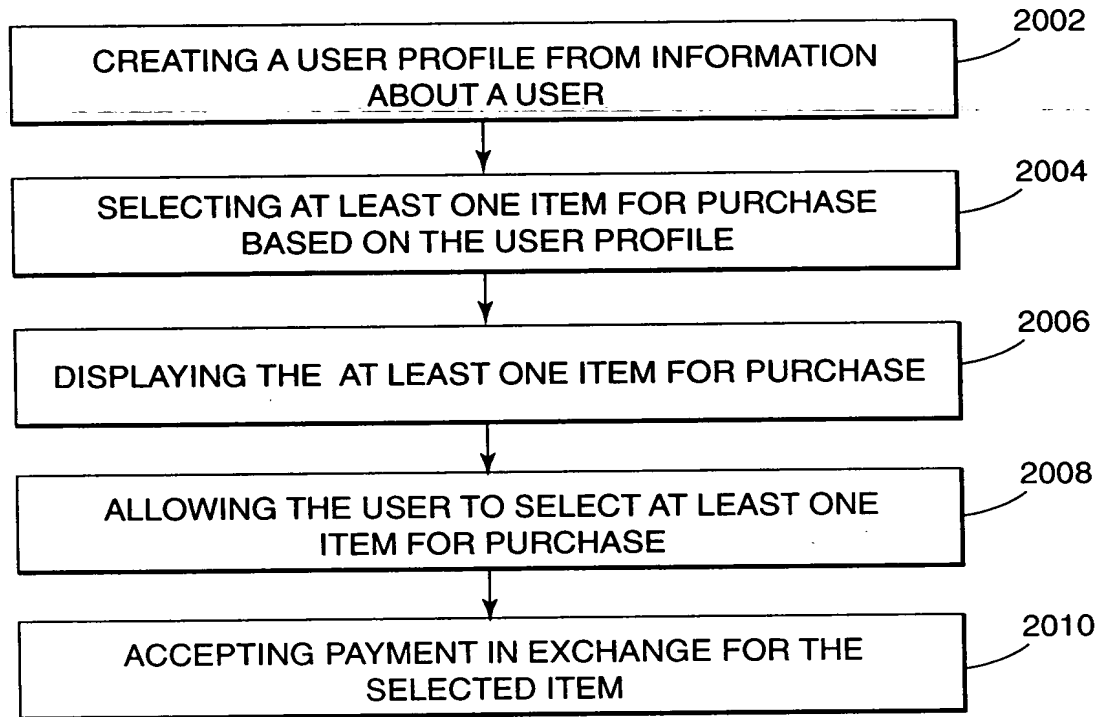


Fig. 75

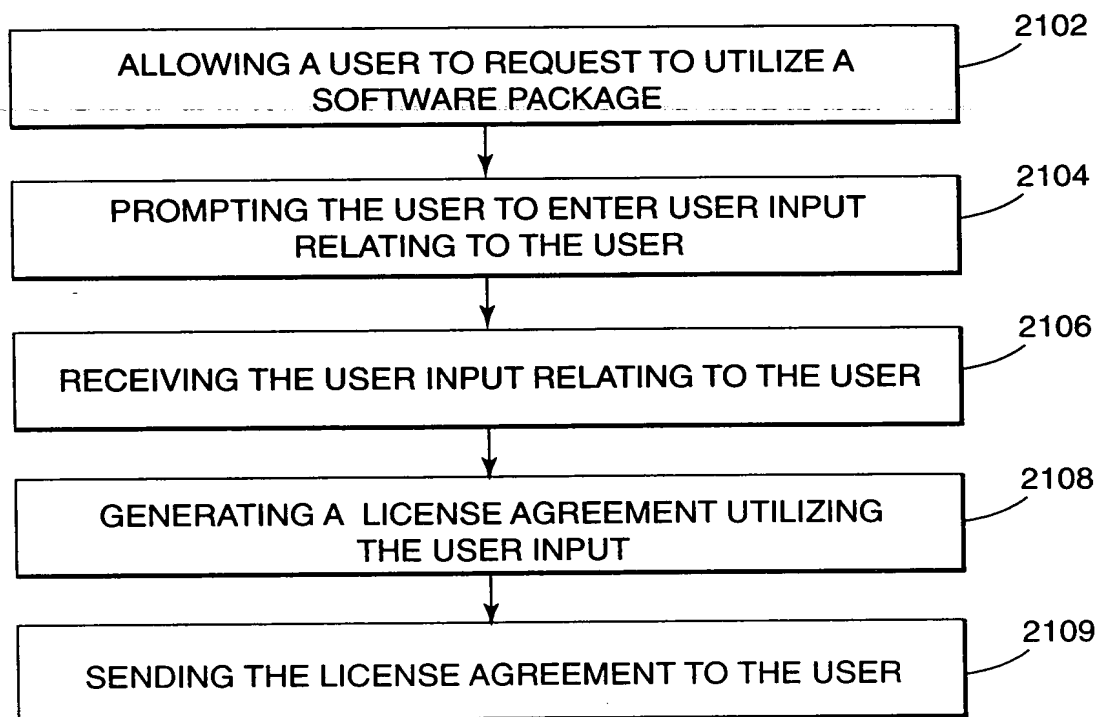
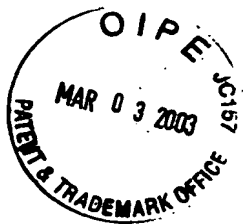


Fig. 76



2108

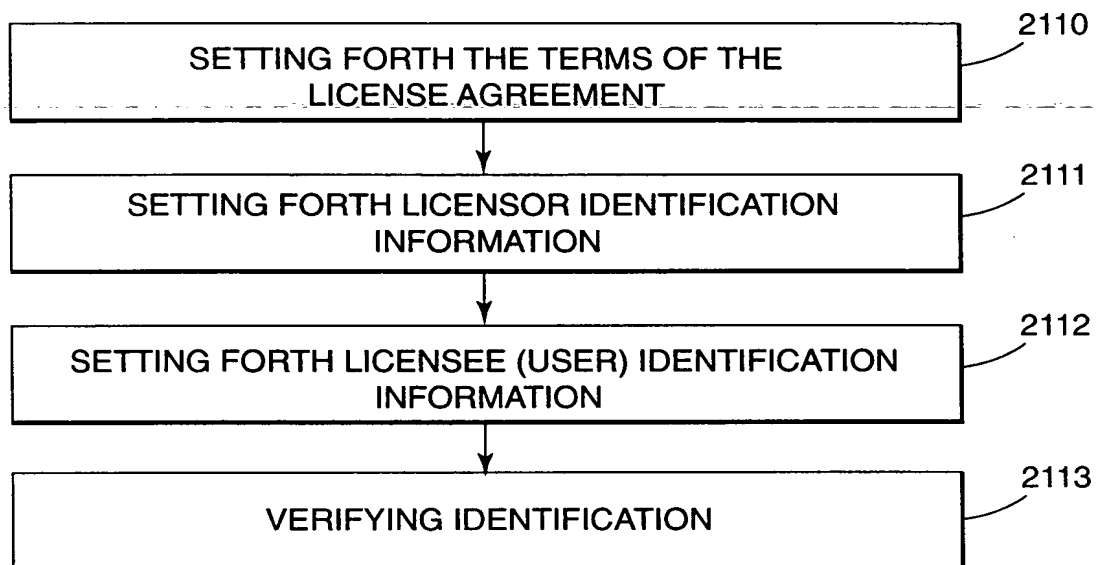


Fig. 77

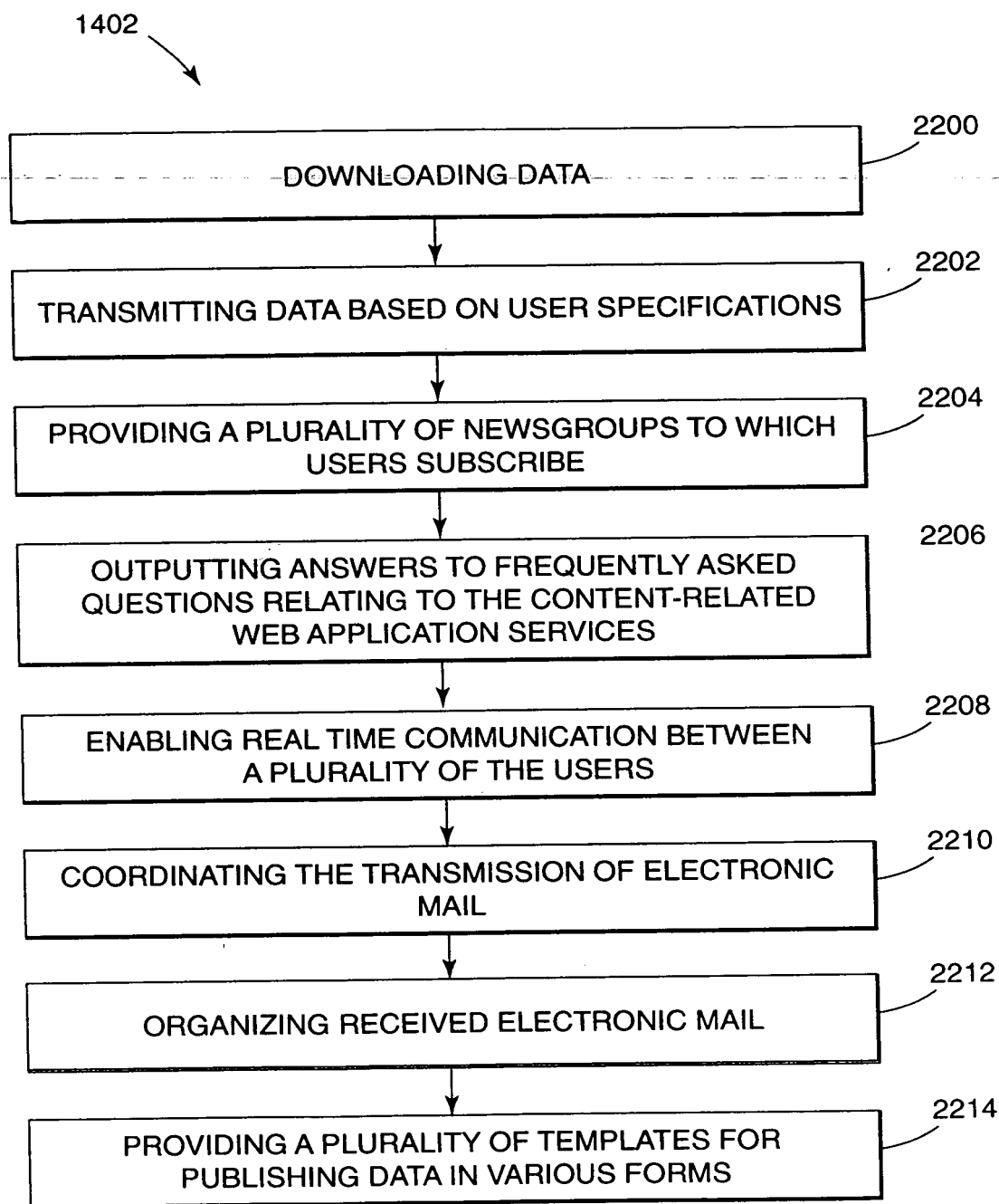


Fig. 78

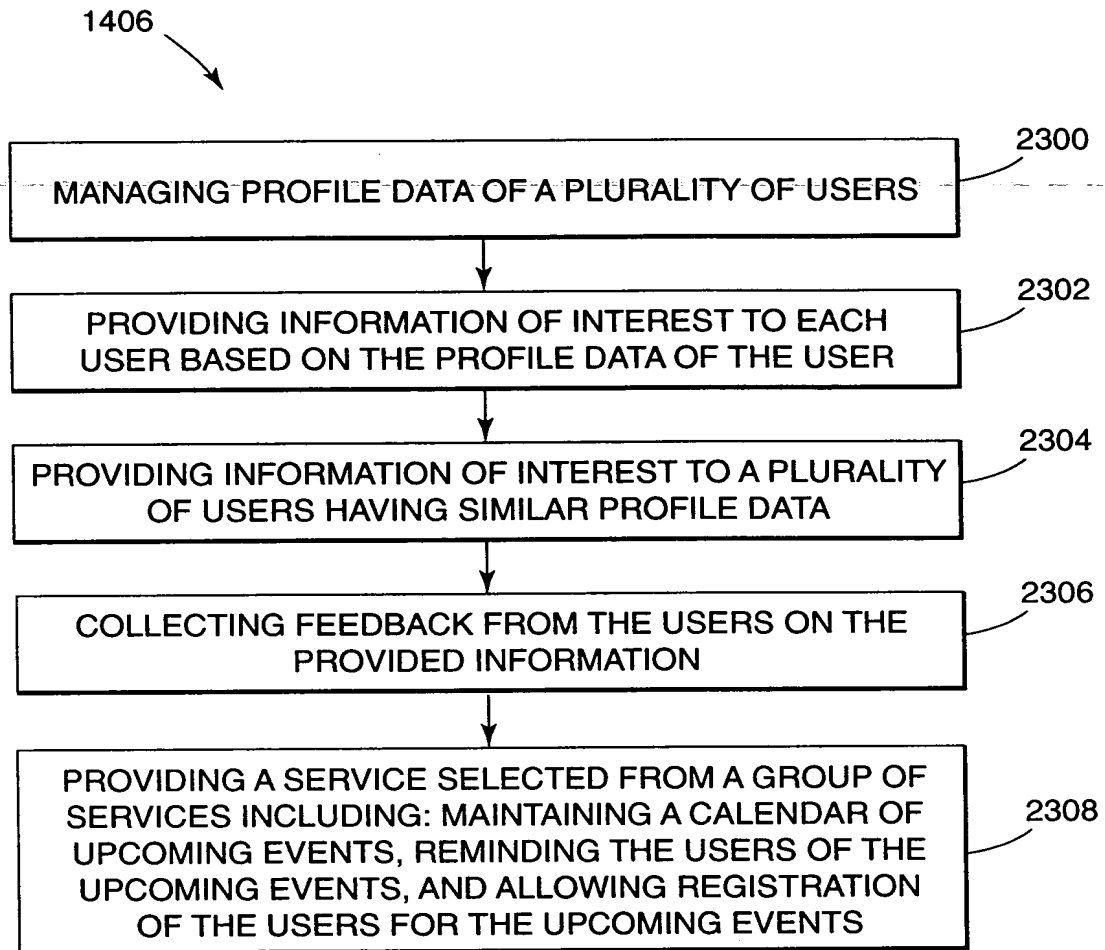


Fig. 79

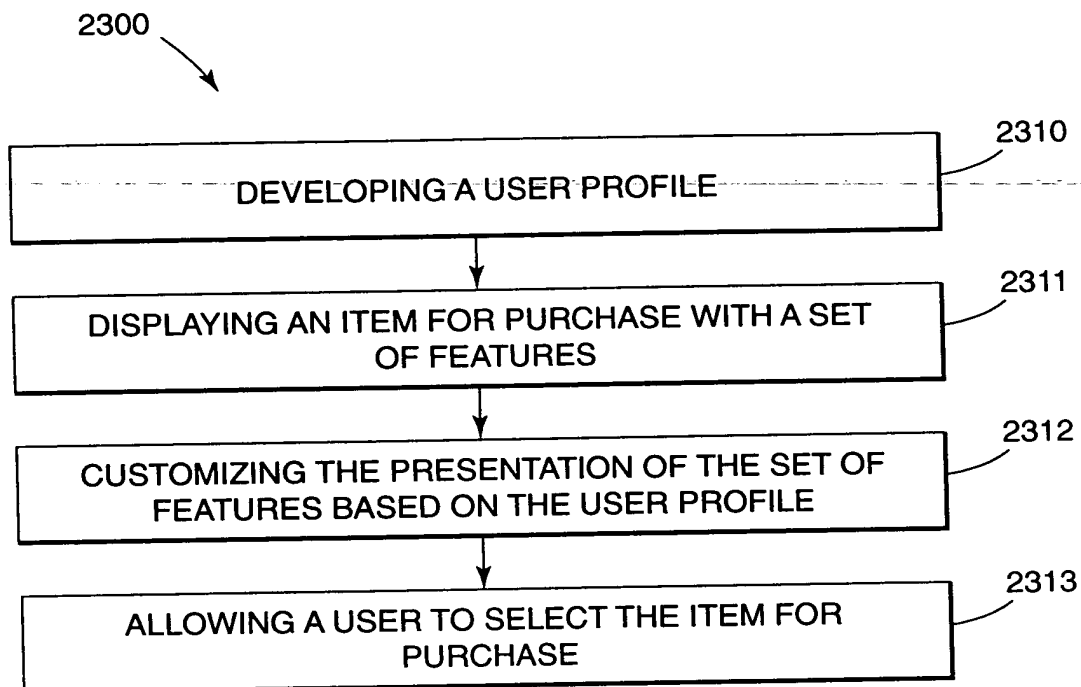


Fig. 80

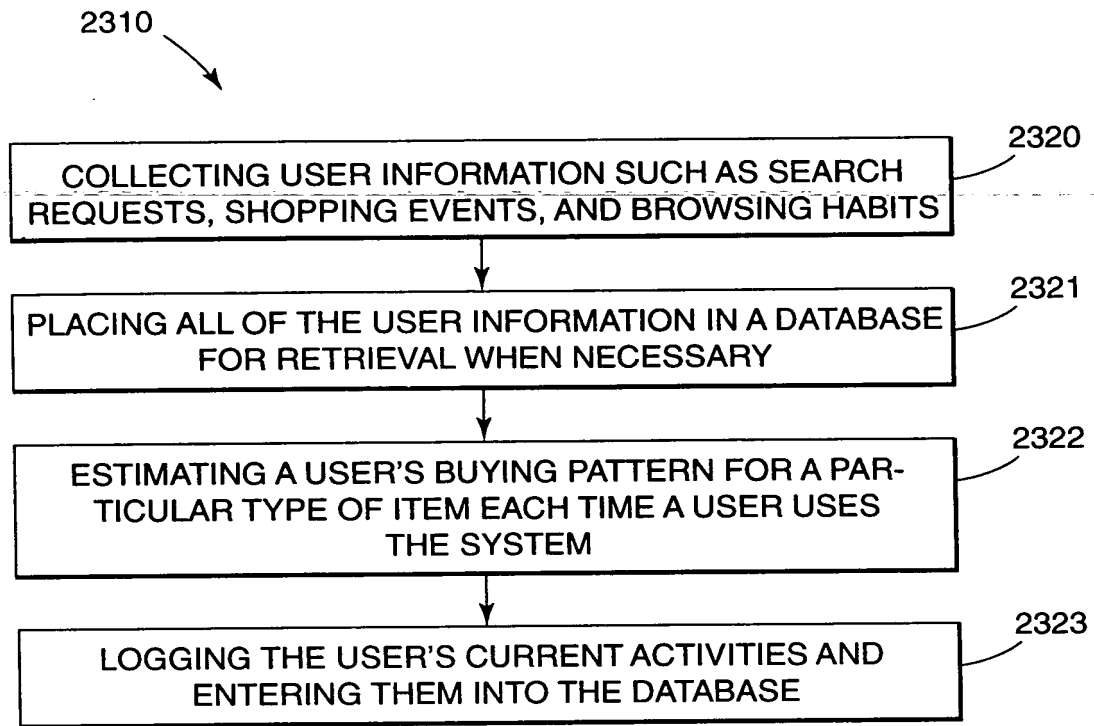


Fig. 81



1408

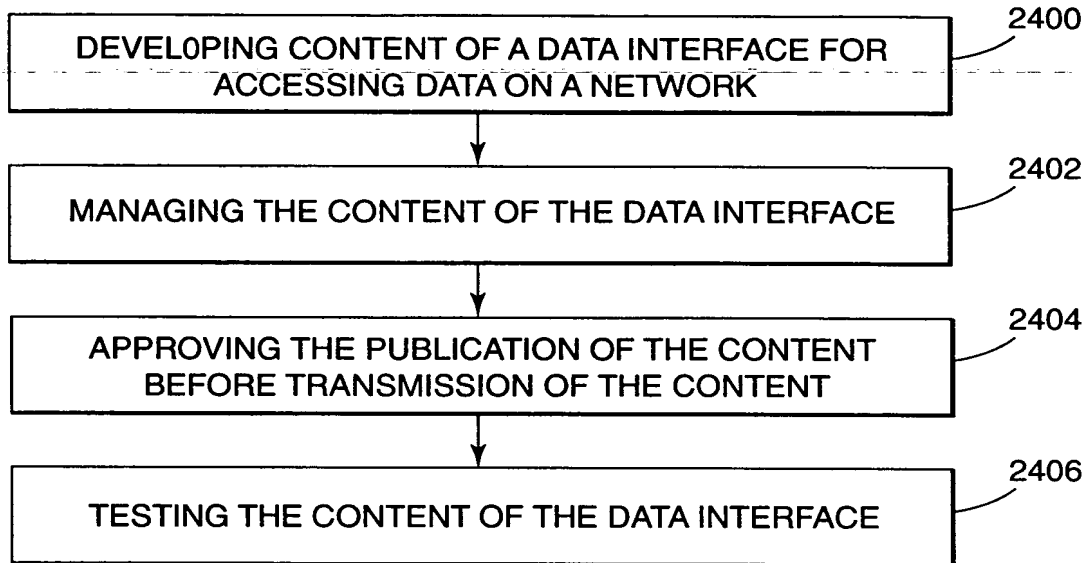


Fig. 82

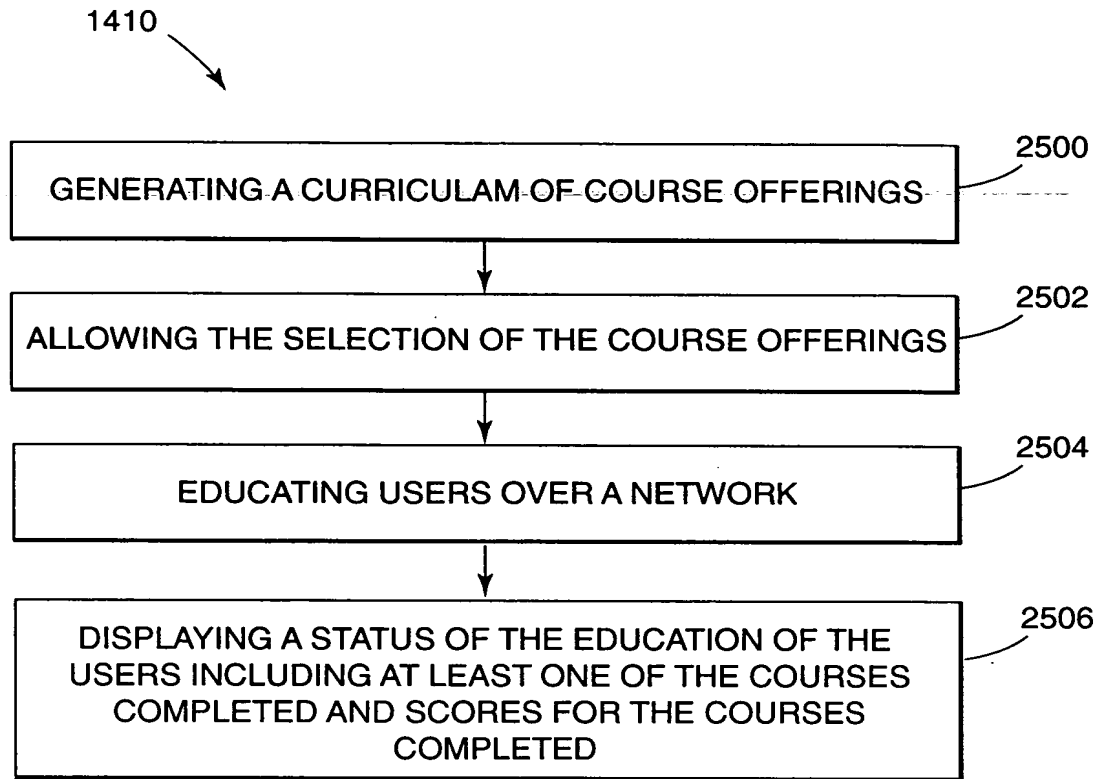


Fig. 83

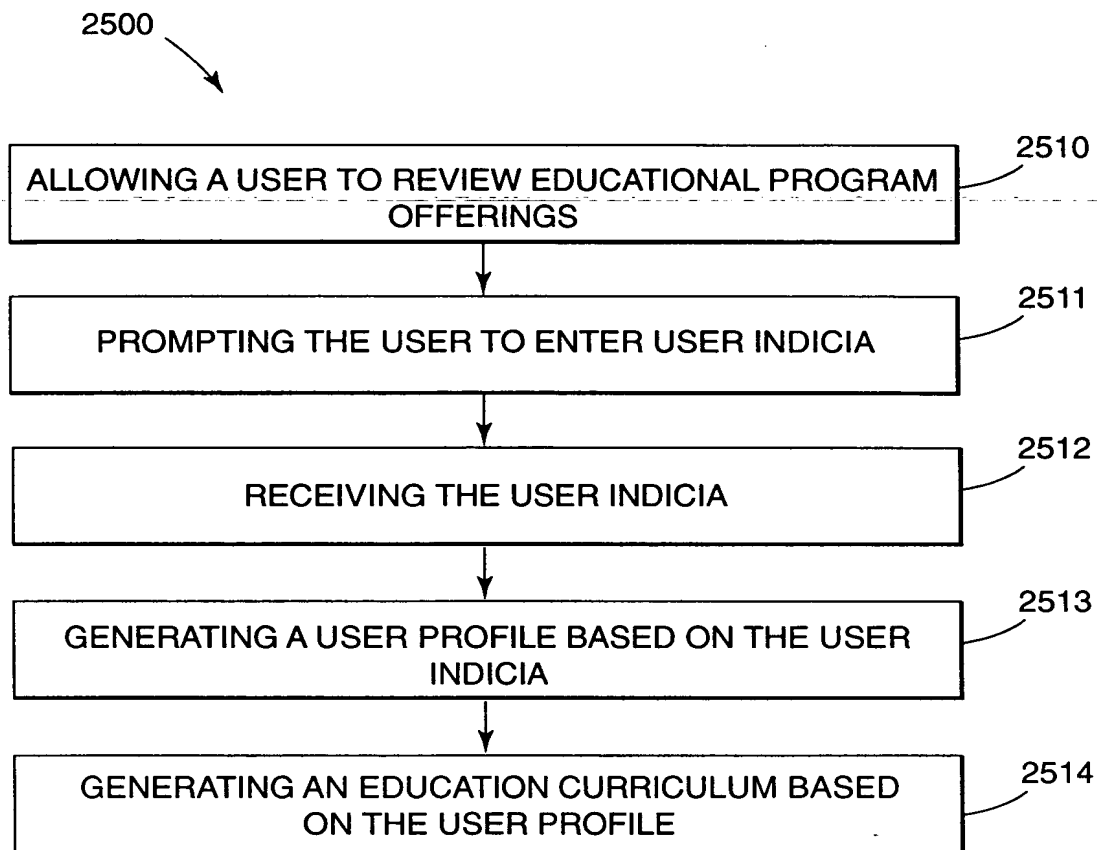


Fig. 84

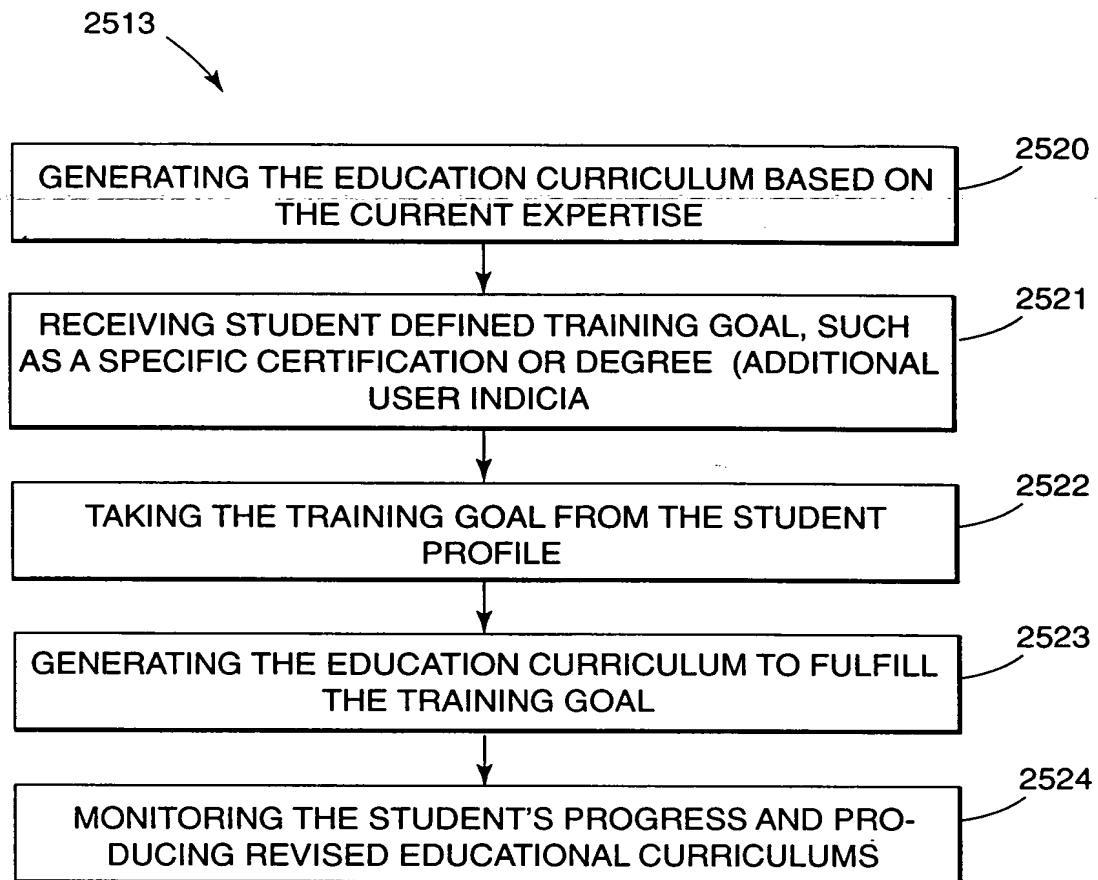


Fig. 85

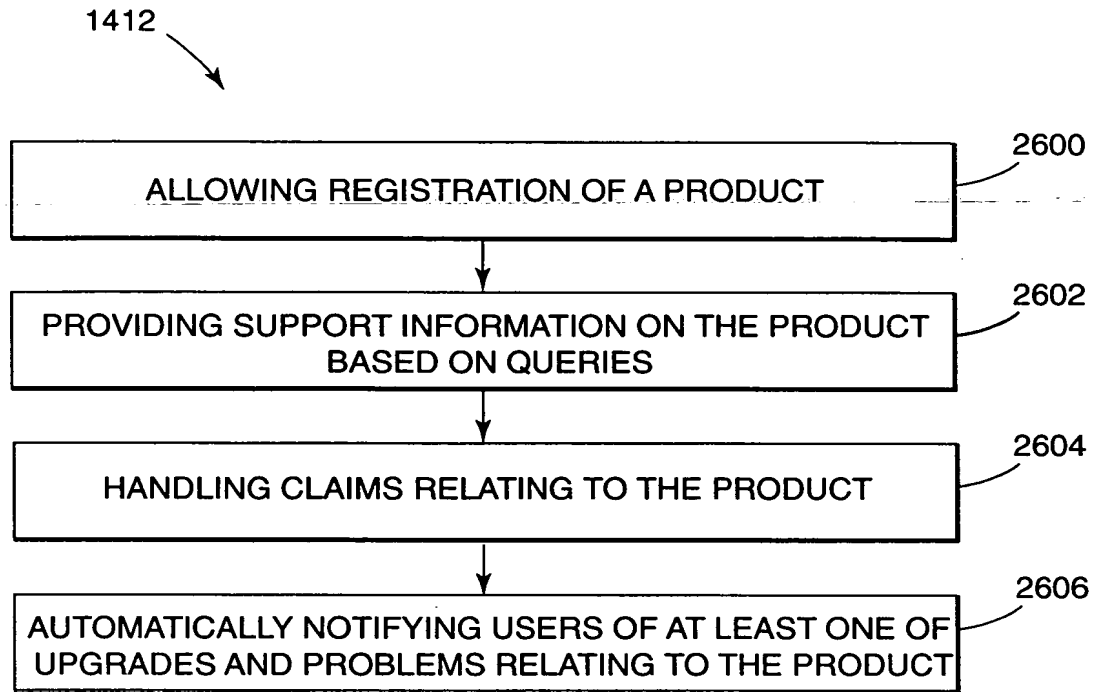


Fig. 86

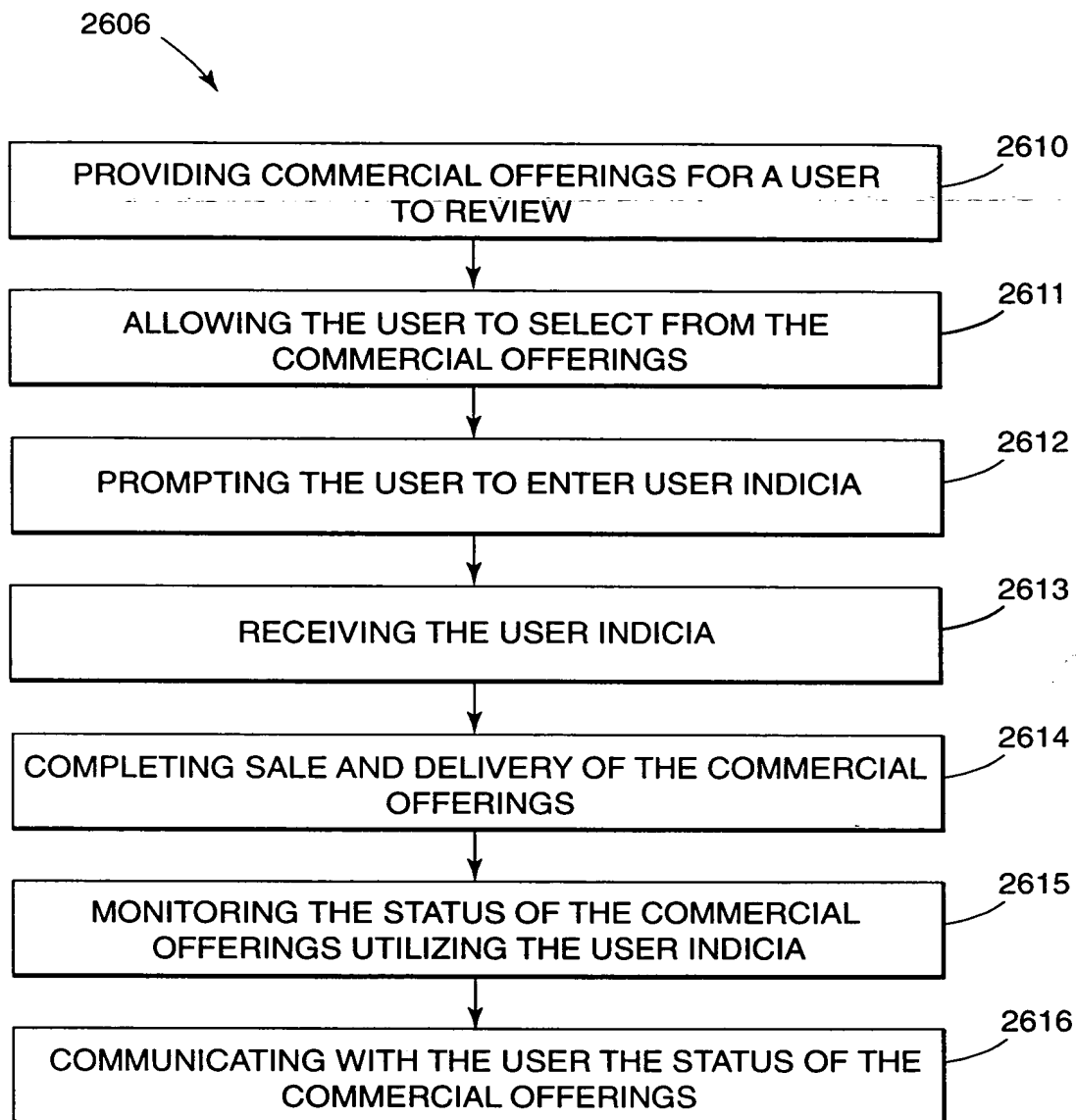


Fig. 87

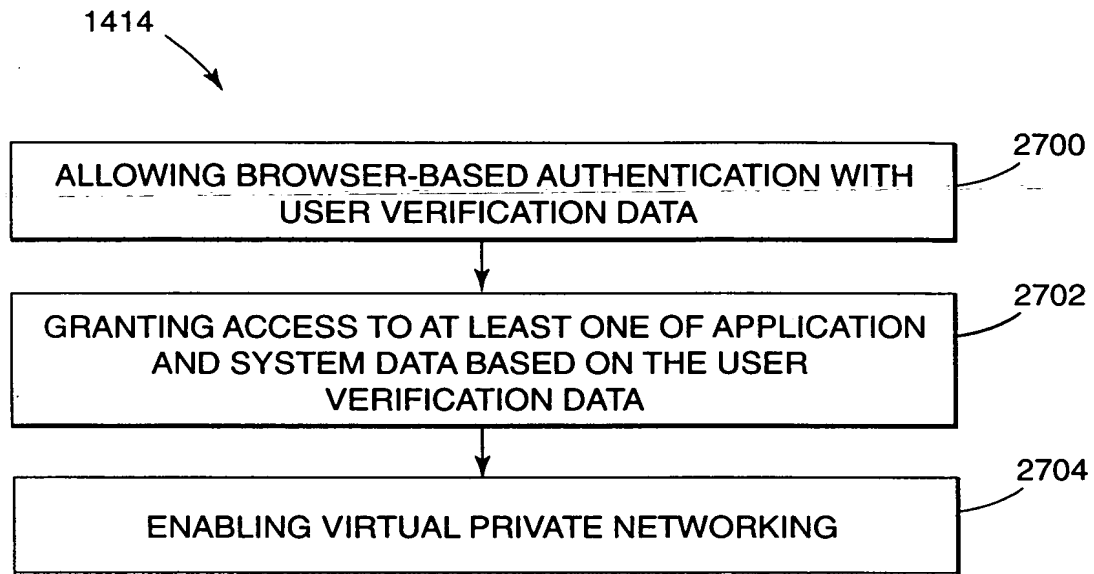


Fig. 88

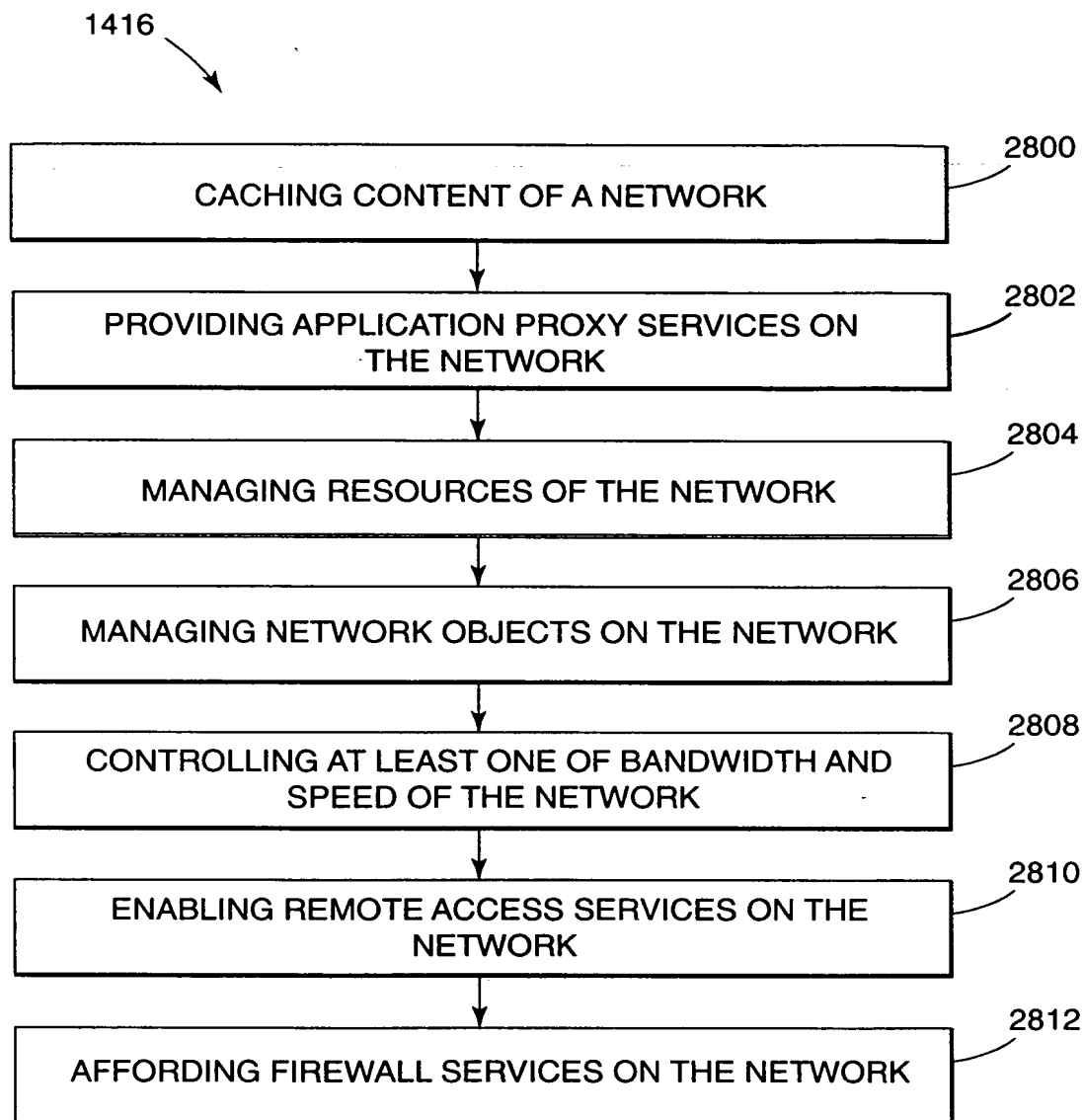


Fig. 89

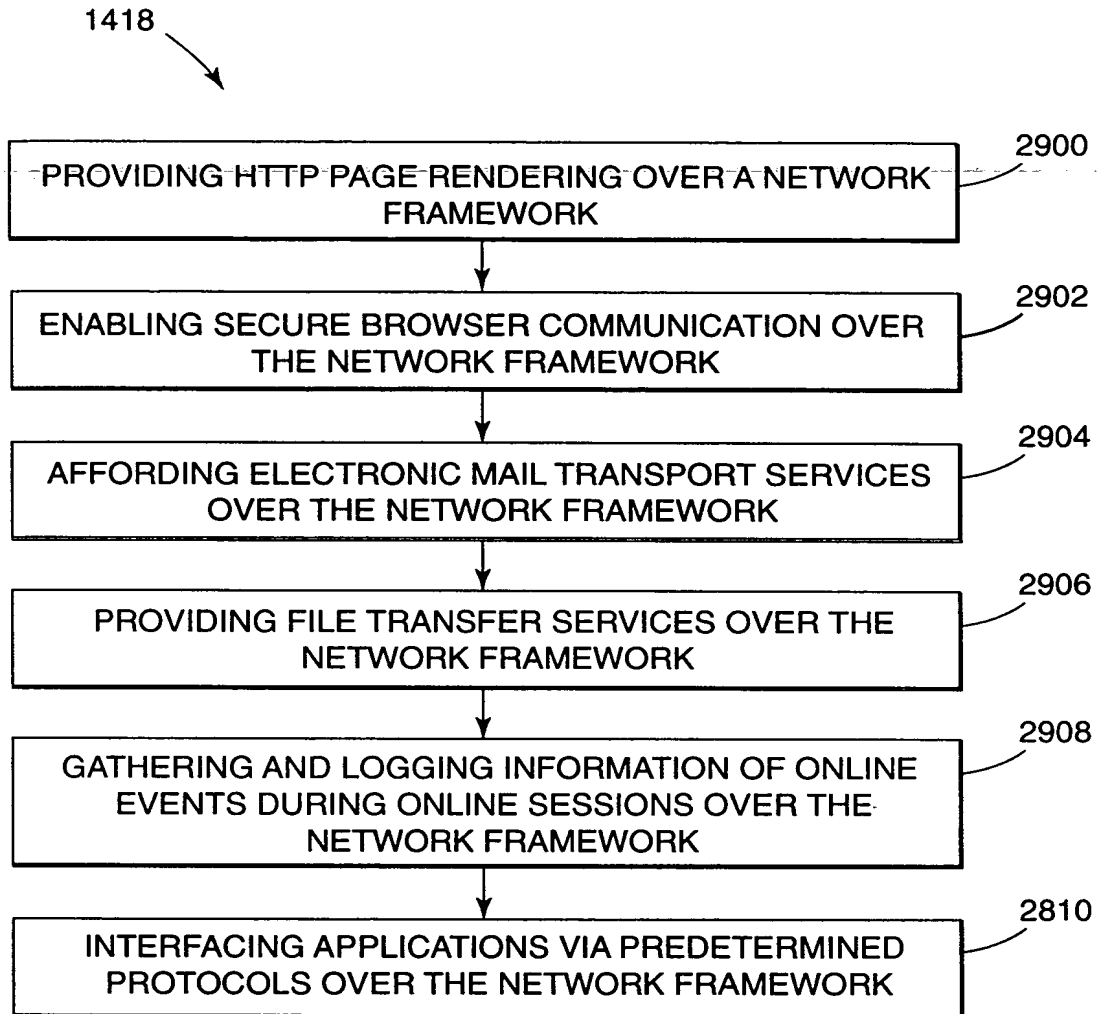


Fig. 90

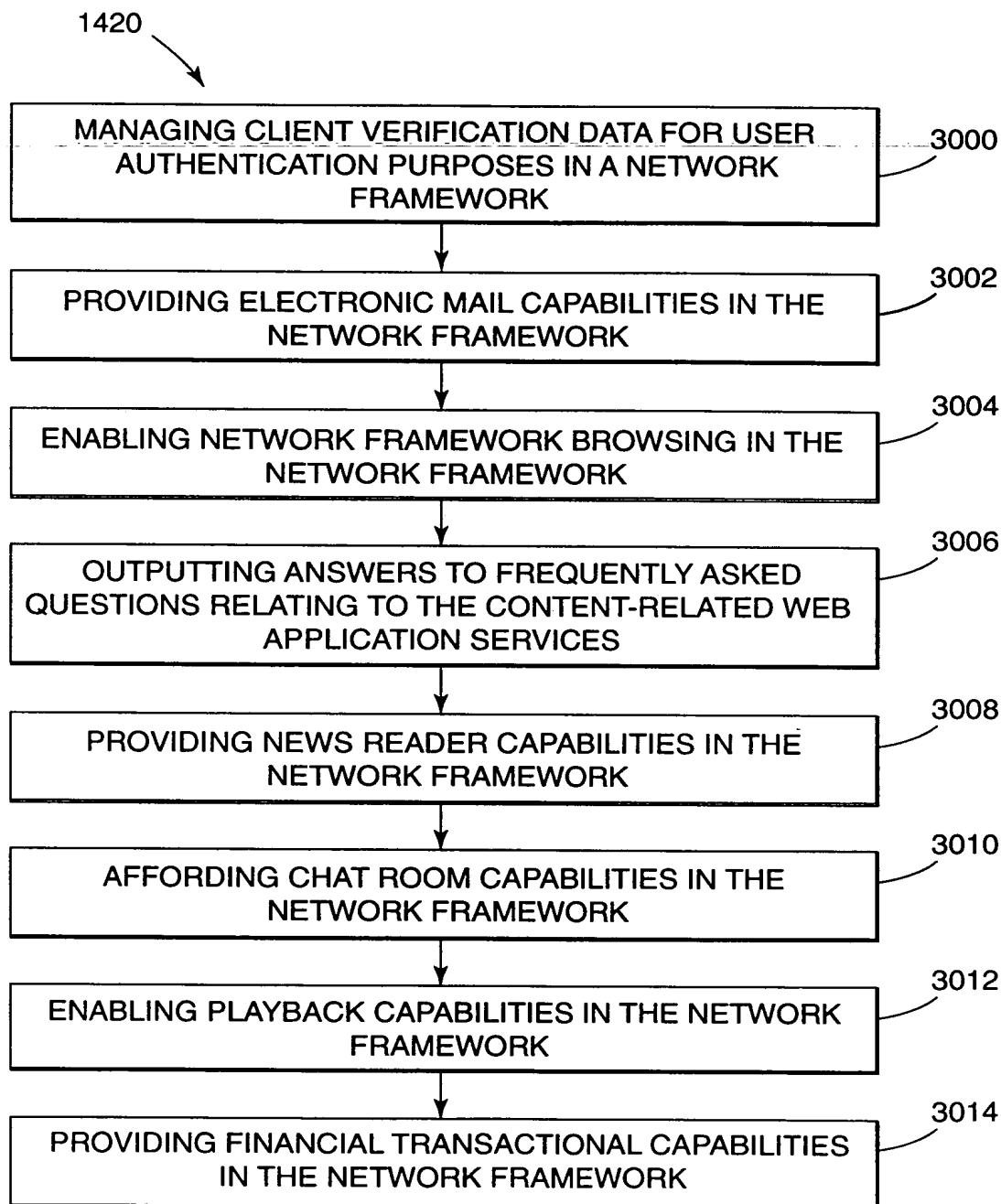


Fig. 91

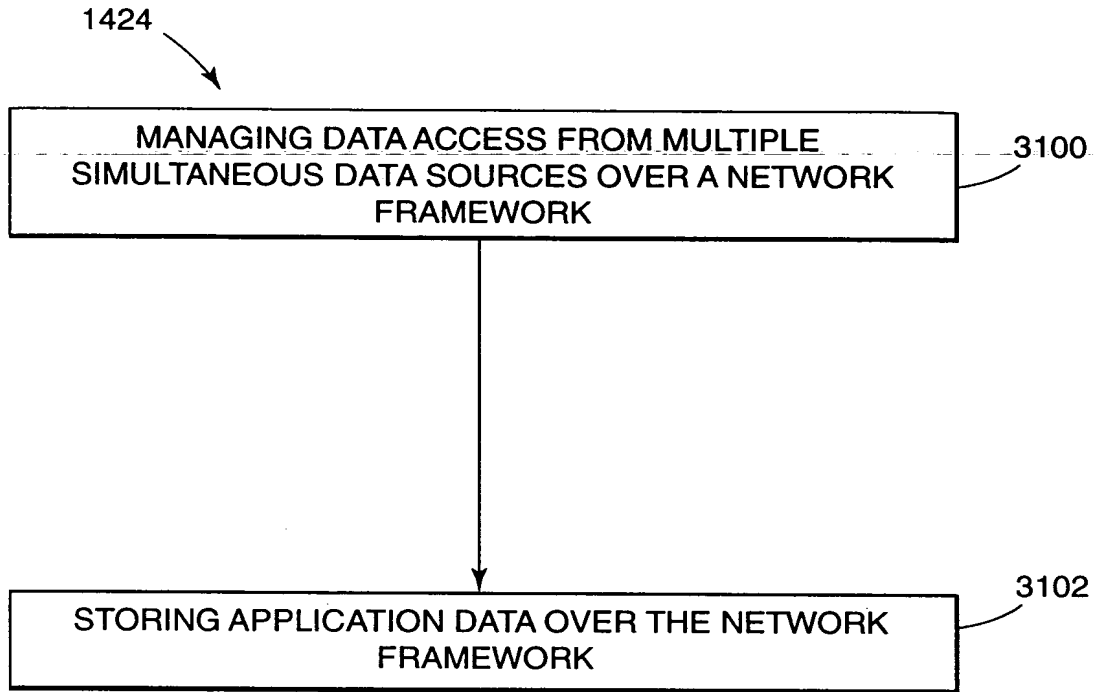


Fig. 92

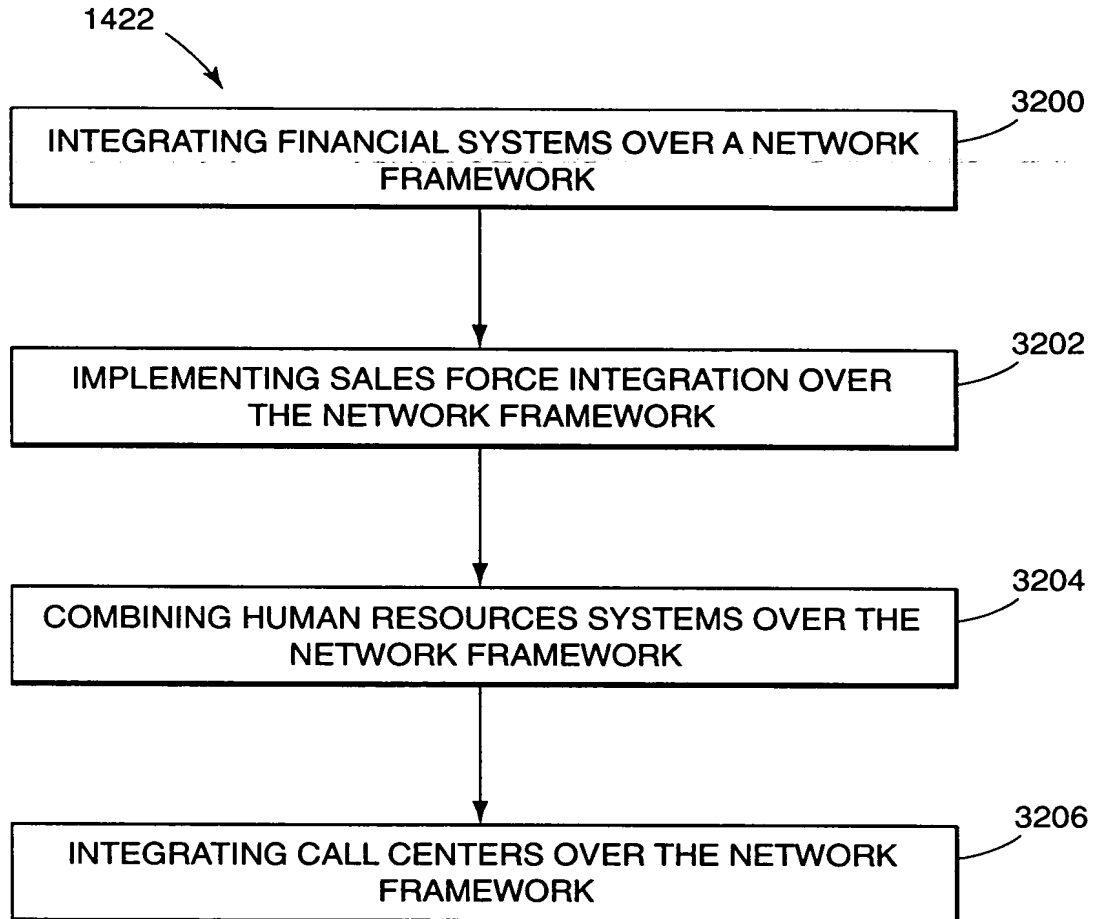


Fig. 93

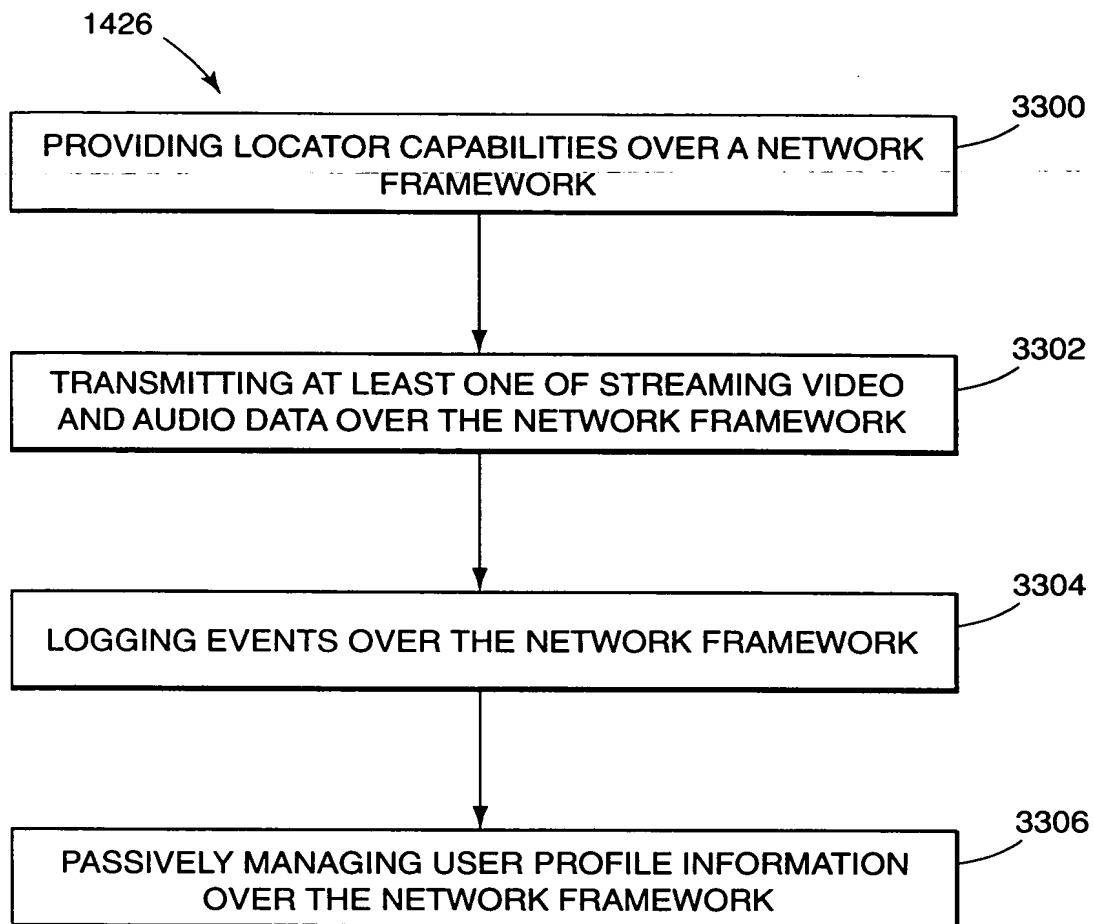


Fig. 94

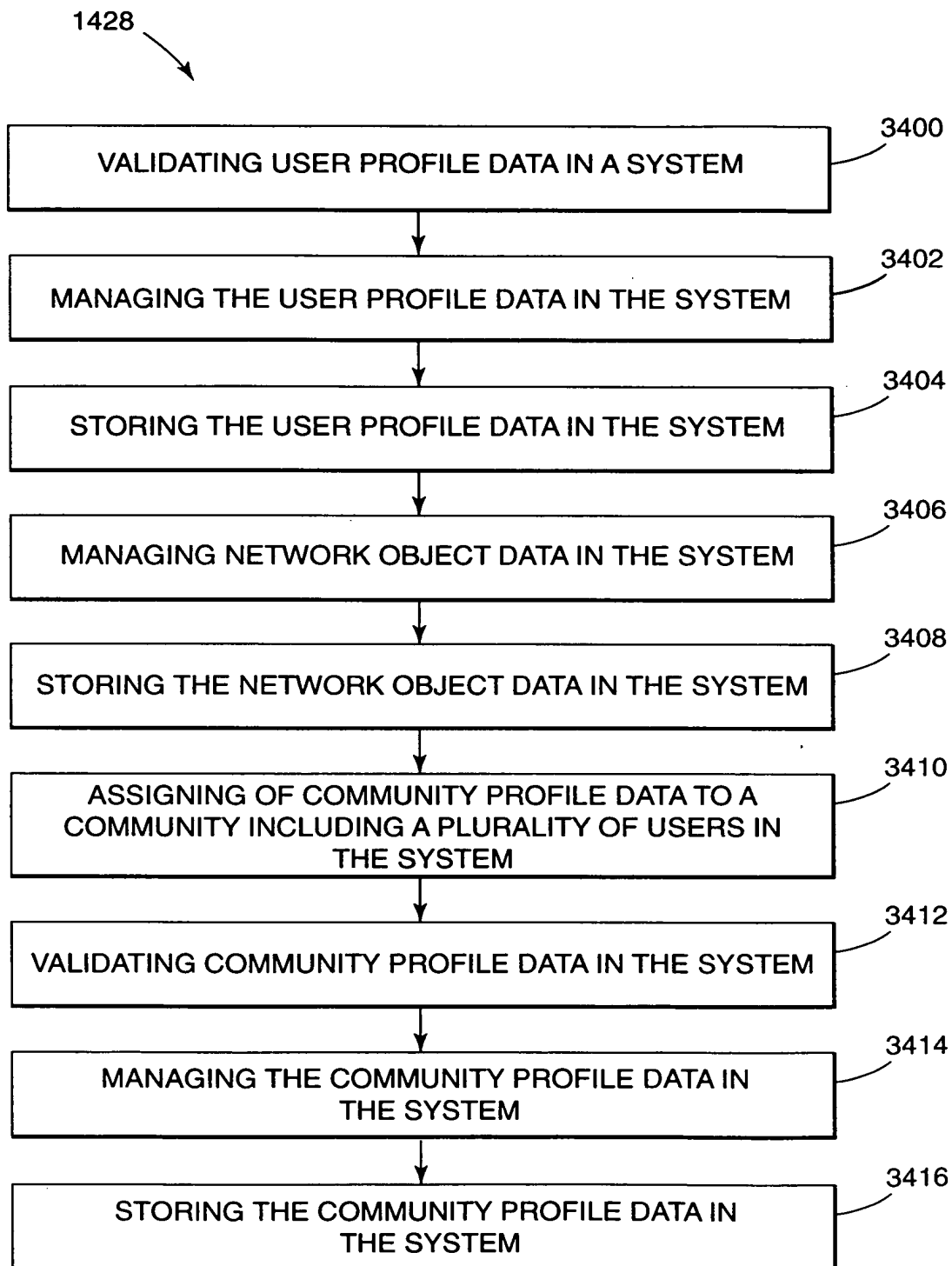


Fig. 95

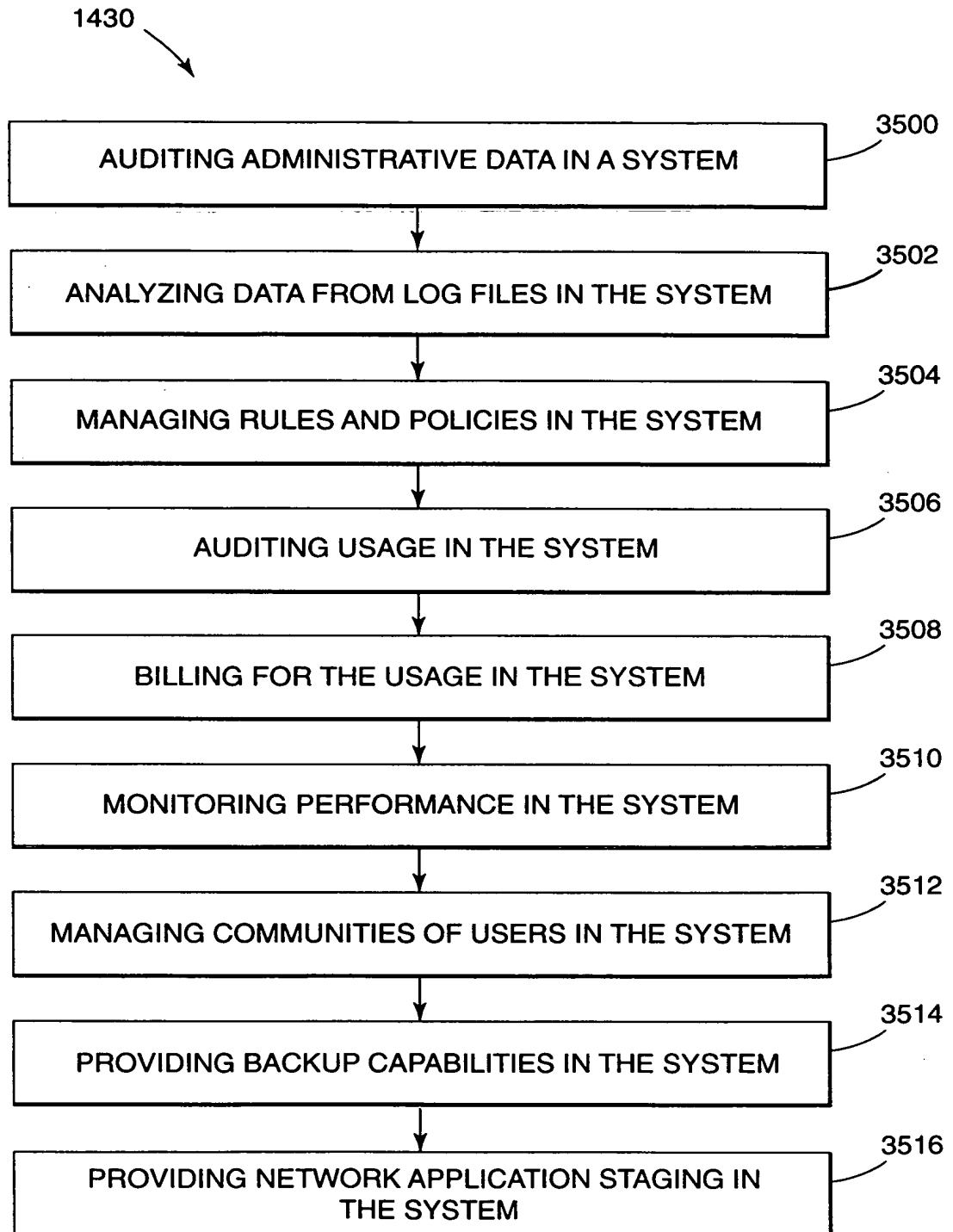


Fig. 96

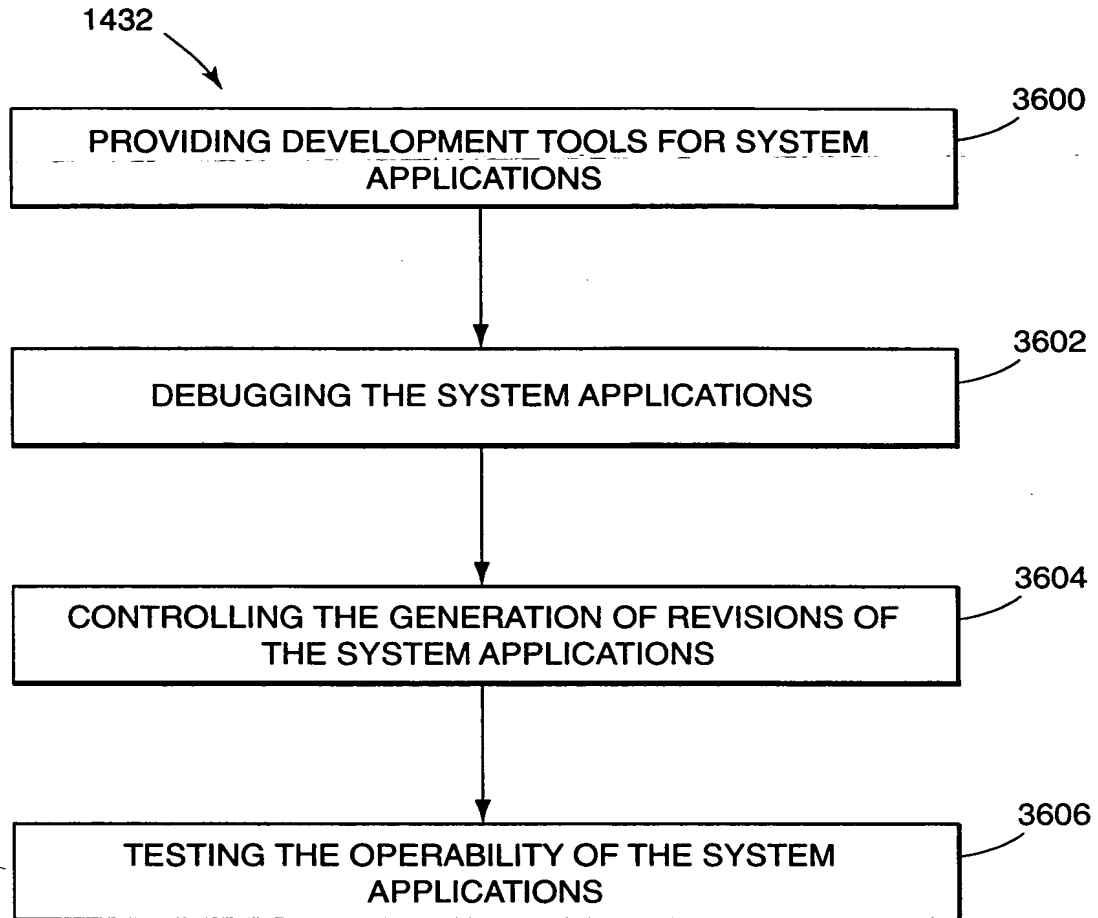


Fig. 97